

FIGURE 1

2/68

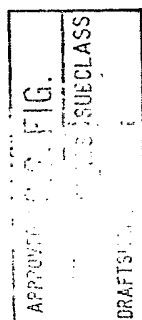
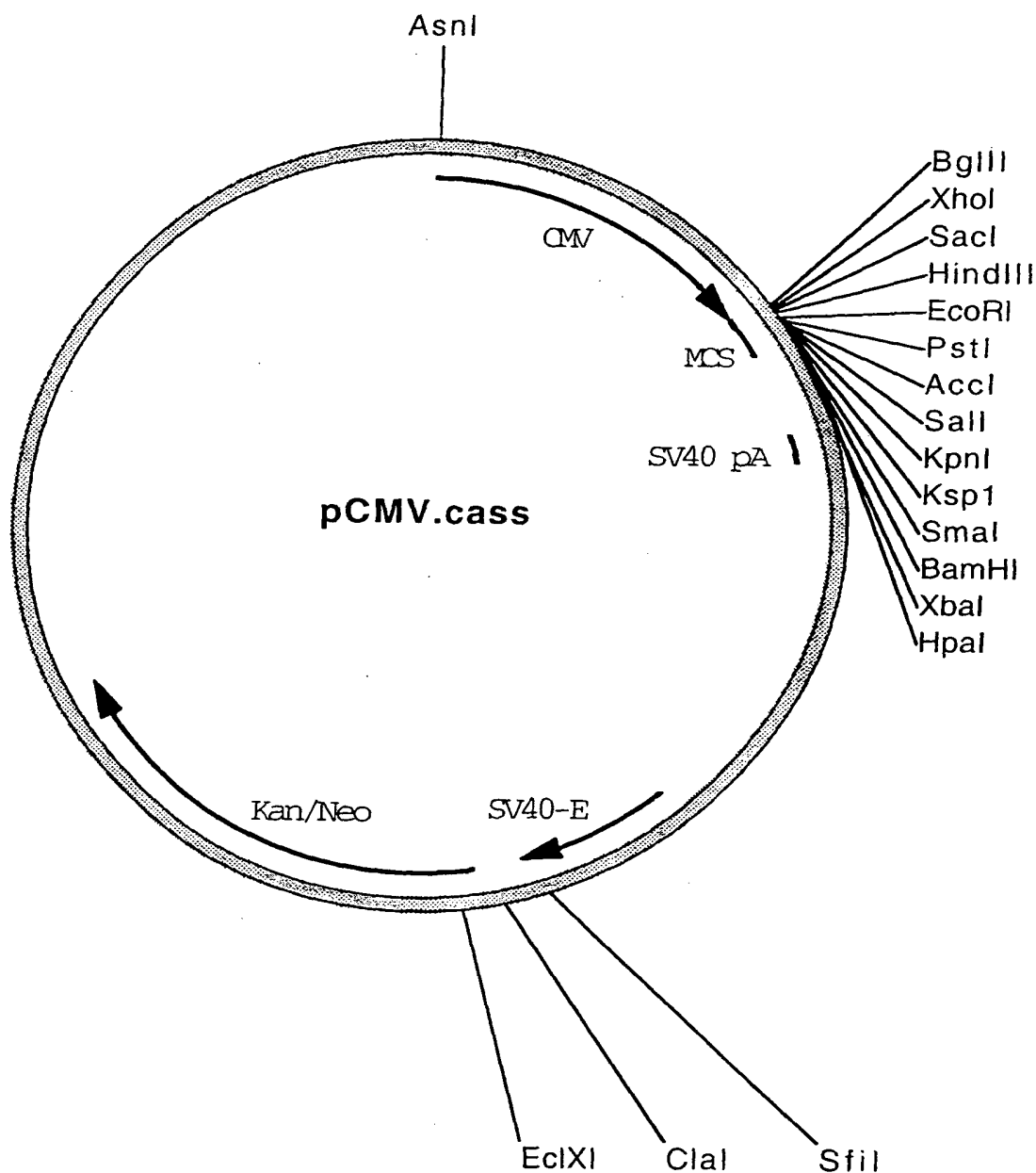


FIG. 1 is a schematic diagram of a circular plasmid vector, pCMV.cass. The plasmid contains a CMV promoter (CMV) and a multiple cloning site (MCS) flanked by a Kanamycin/Neomycin resistance gene (Kan/Neo) and an SV40 early gene (SV40-E). The MCS is flanked by a polyA signal (SV40 pA). The plasmid is shown with a thick outer boundary and a thin inner boundary. The MCS is located between the CMV promoter and the SV40 pA signal. The Kan/Neo gene is located between the SV40 pA signal and the SV40-E gene. The SV40-E gene is located between the SV40 pA signal and the SV40-E gene. The plasmid is shown with a thick outer boundary and a thin inner boundary. The MCS is located between the CMV promoter and the SV40 pA signal. The Kan/Neo gene is located between the SV40 pA signal and the SV40-E gene. The SV40-E gene is located between the SV40 pA signal and the SV40-E gene.

**FIGURE 2**

APPROVED FOR PUBLICATION	FIG.
BY	CLASS
DATE	1

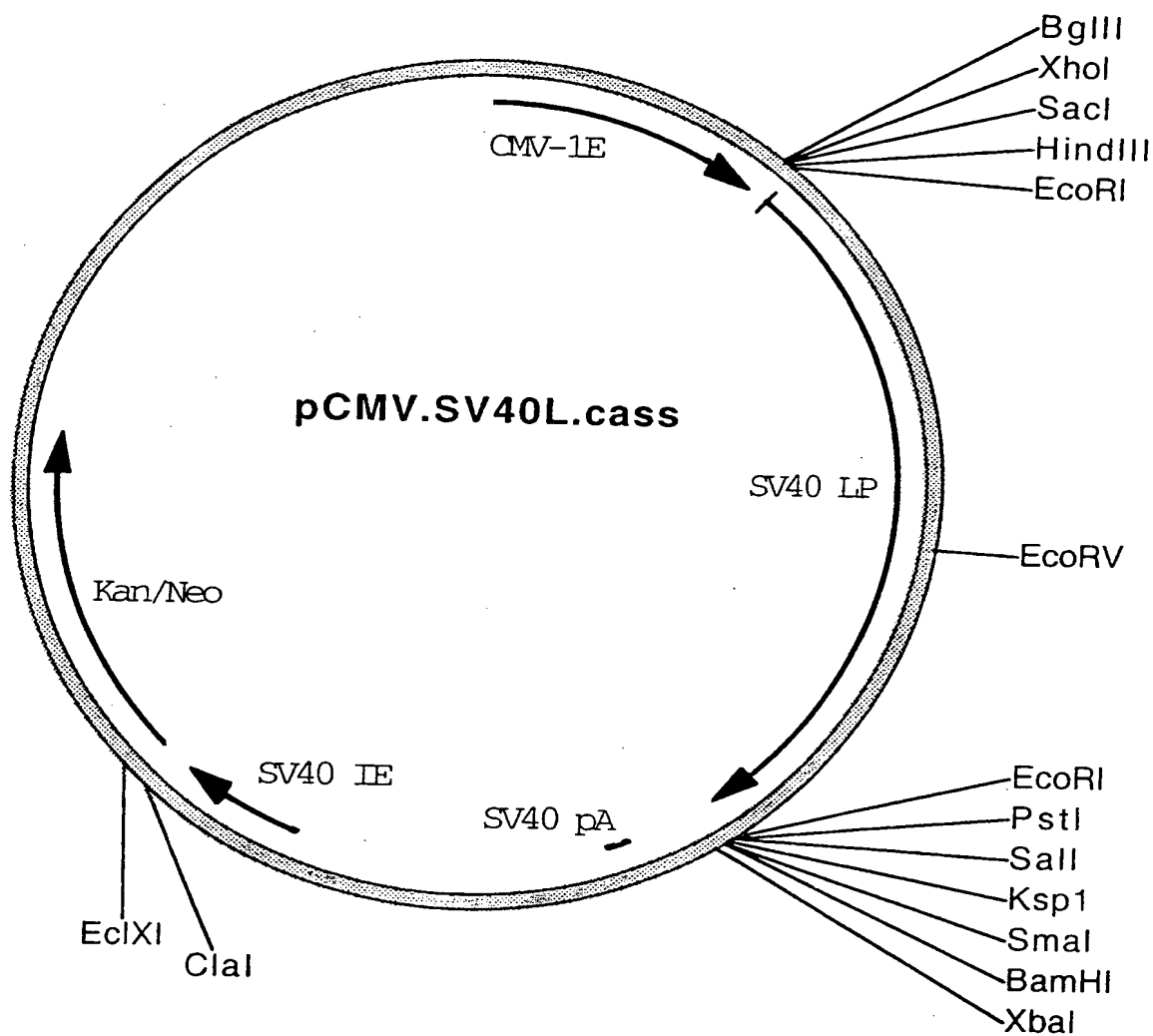
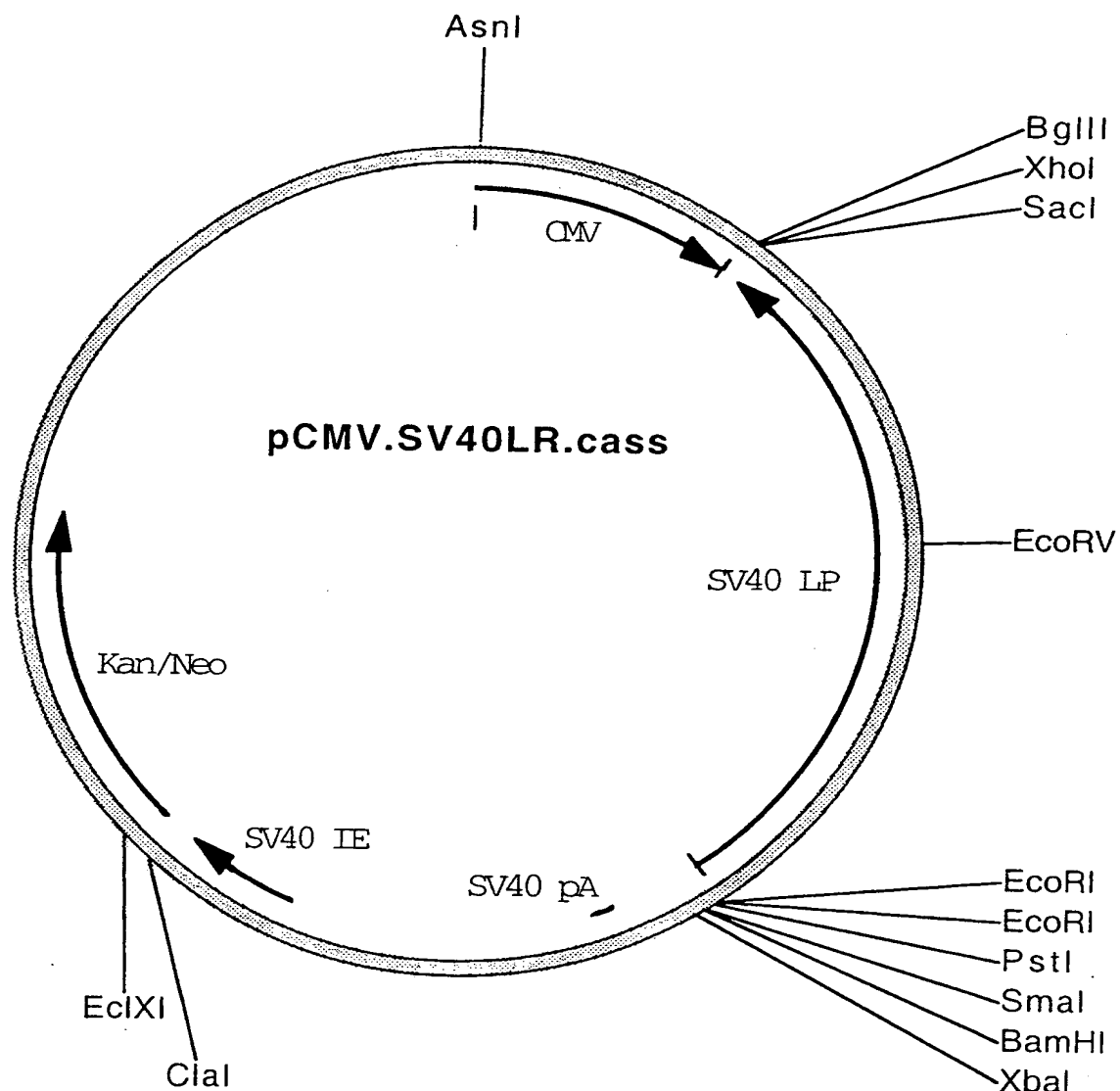


FIGURE 3

APPROVED	BY	FIG.	SUBCLASS
DRAFTSMAN			



**FIGURE 4**

5/68

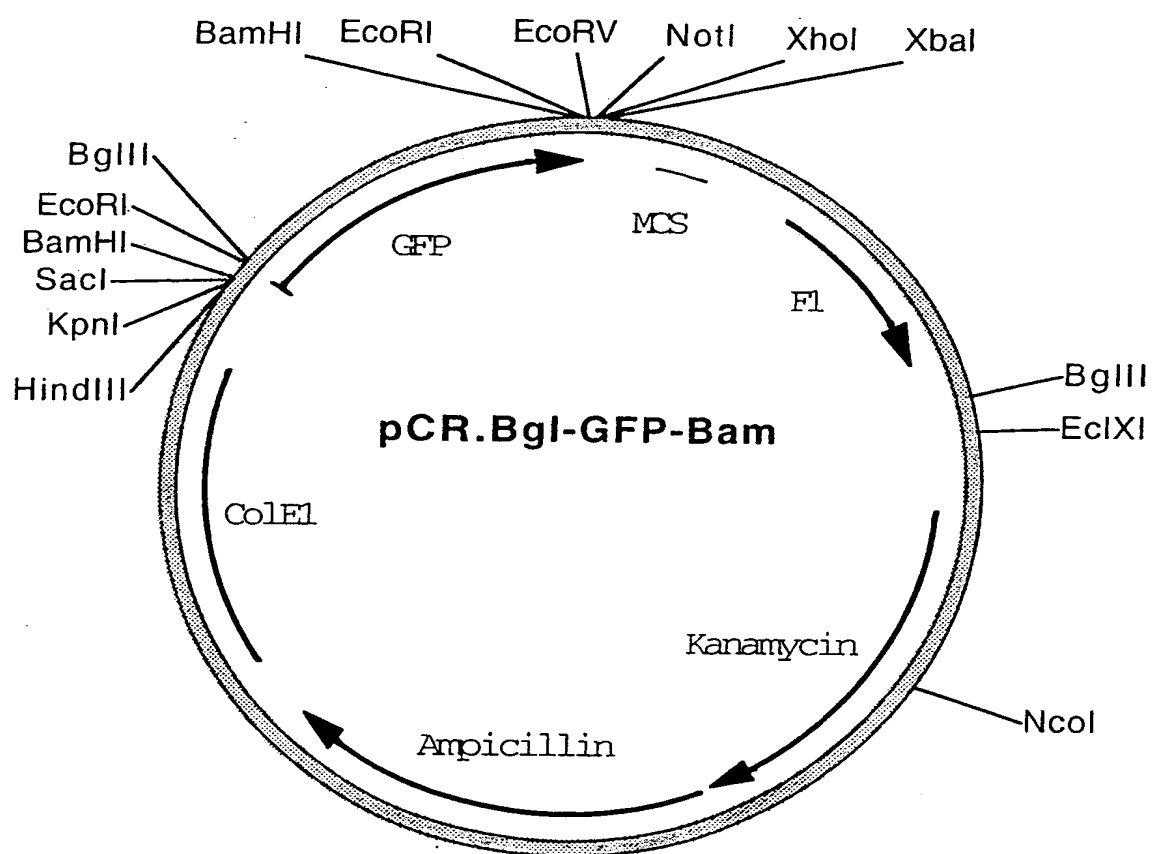
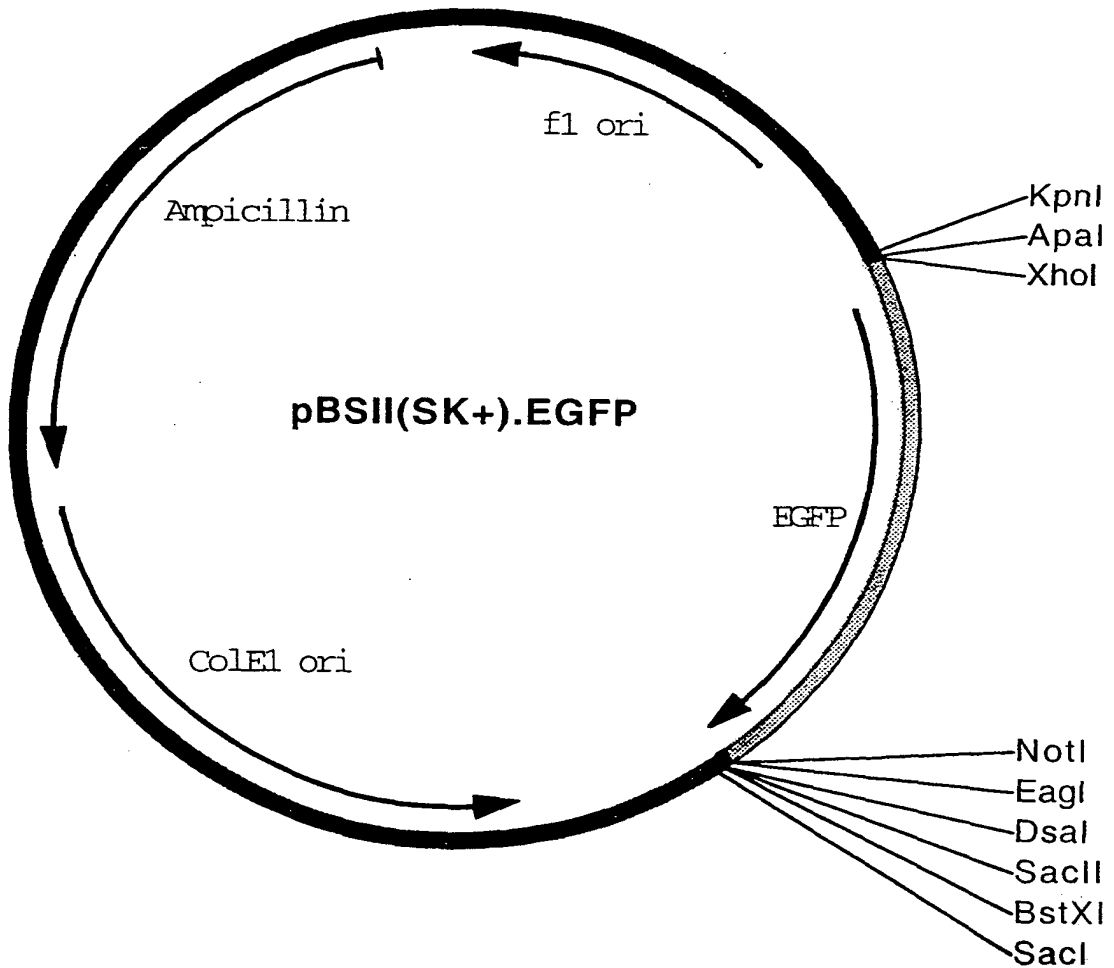


FIGURE 5

6/68

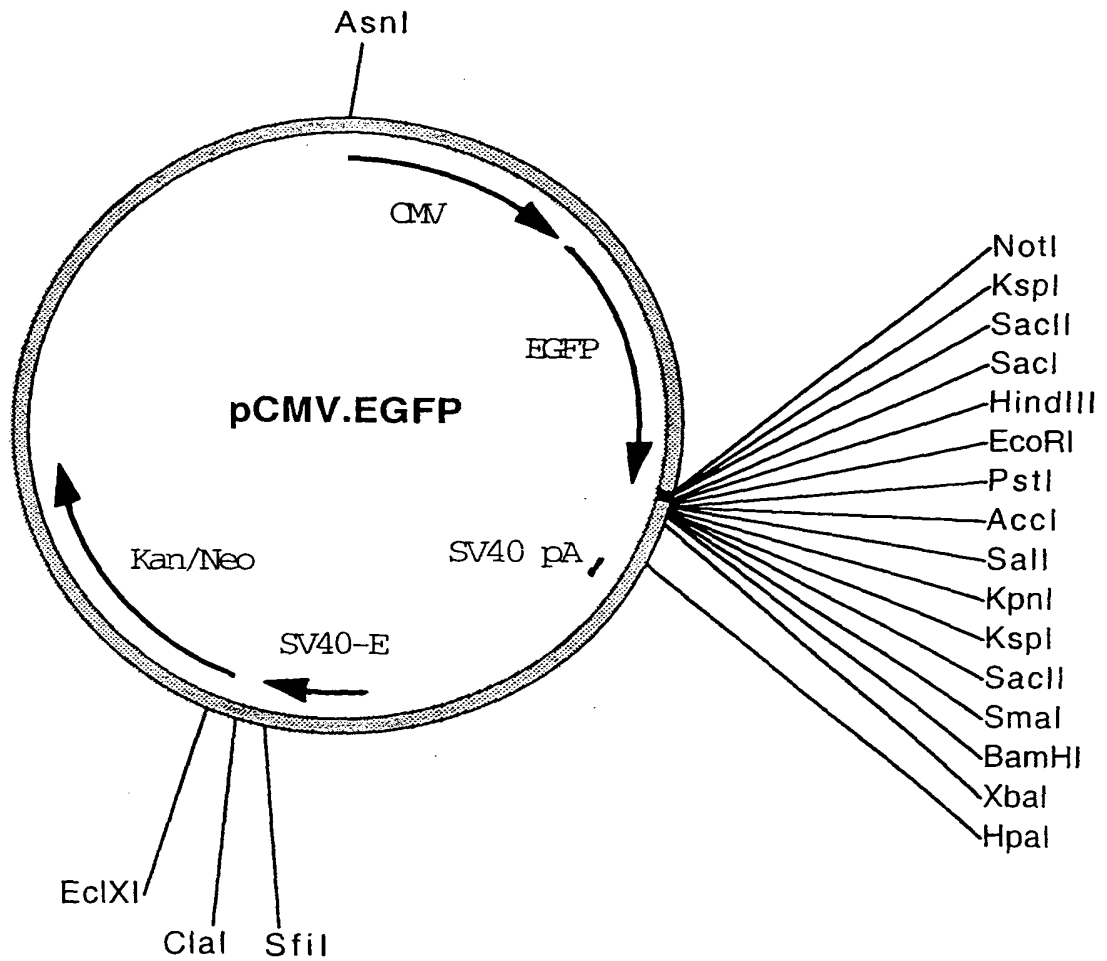
APPROVED FOR FIG.	CLASS	SUBCLASS
BY		
DRAFTS		

**FIGURE 6**

7/68

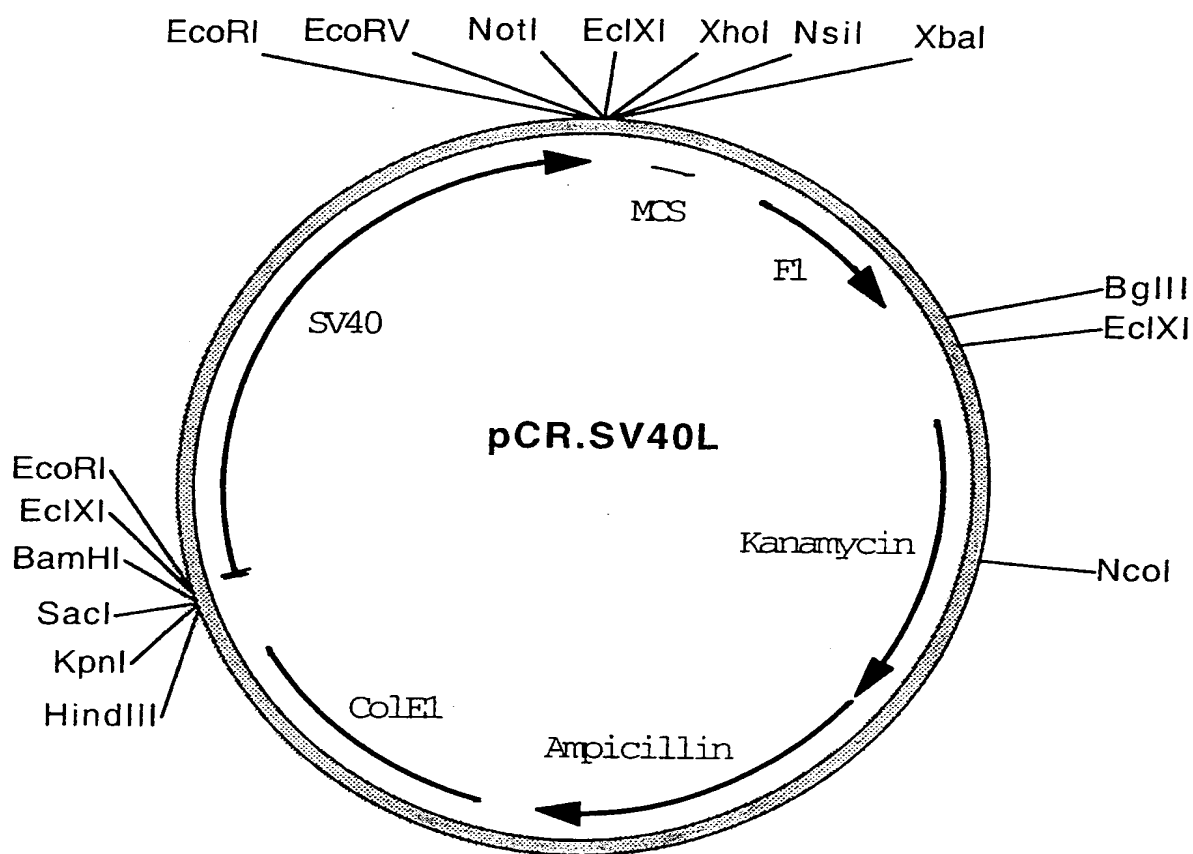
APPROVED FOR PUBLICATION	FIG.
BY	SUBCLASS
DRAFTSMAN	

09/646807

**FIGURE 7**

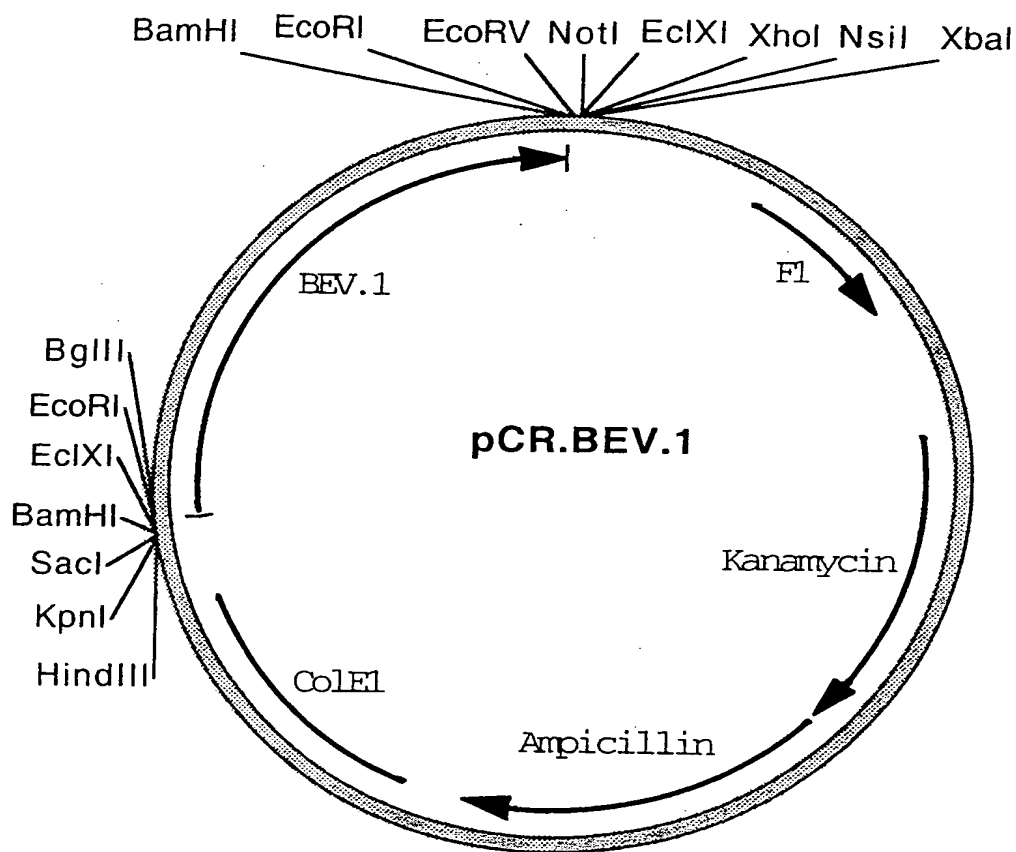
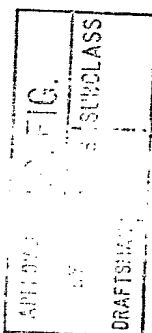
8/68

FIG.	SUBCLASS
1	1
DRAFTS	



**FIGURE 8**

9/68

**FIGURE 9**

10/68

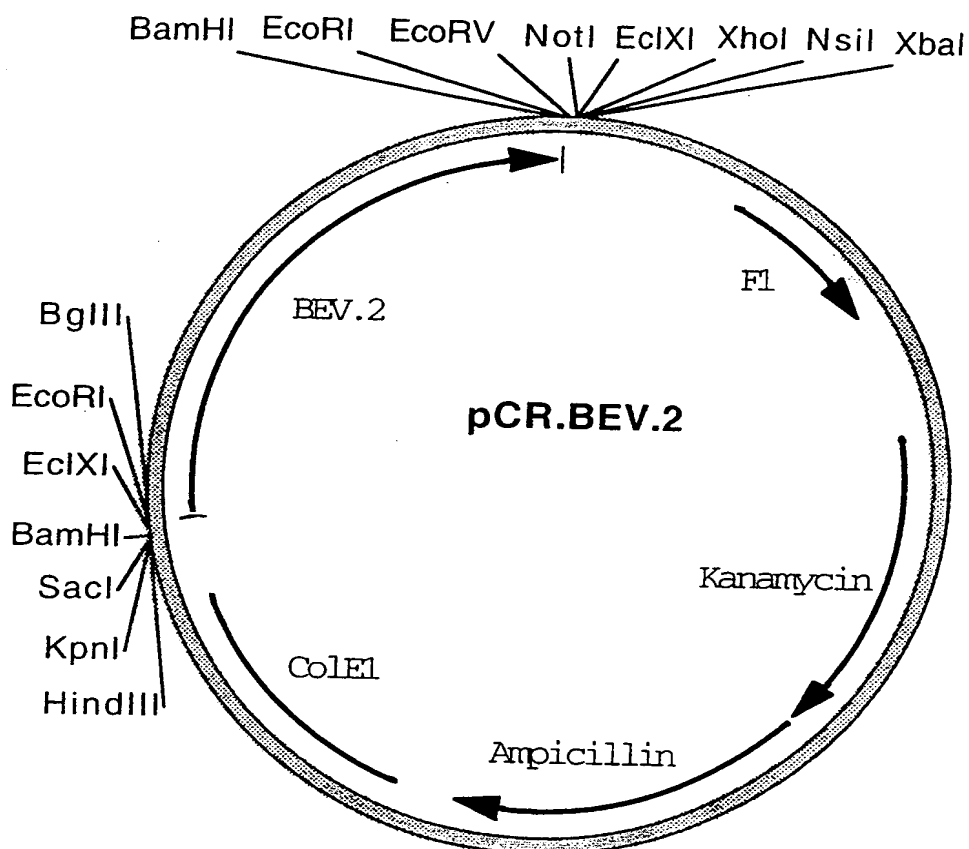
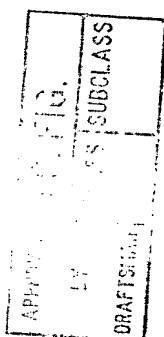


FIGURE 10

11/68

FIG.	SUBCLASS
11	11
DRAFTSMAN	

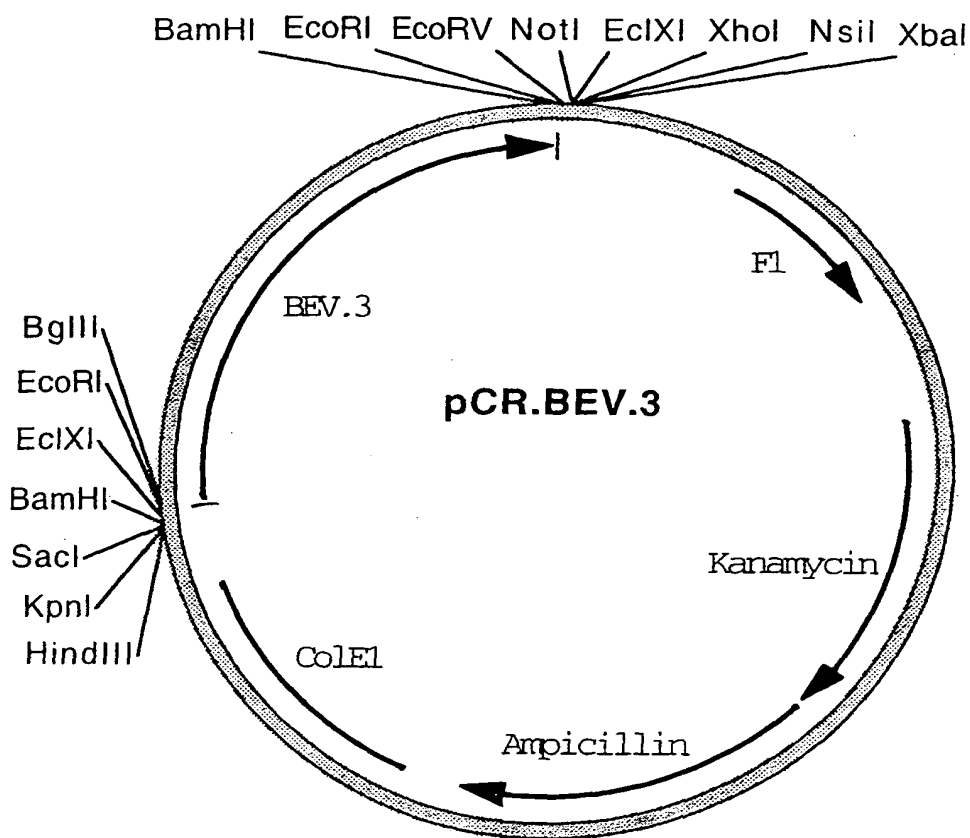


FIGURE 11

12/68

FIG.	SUBCLASS
BY	
DRAFTS	

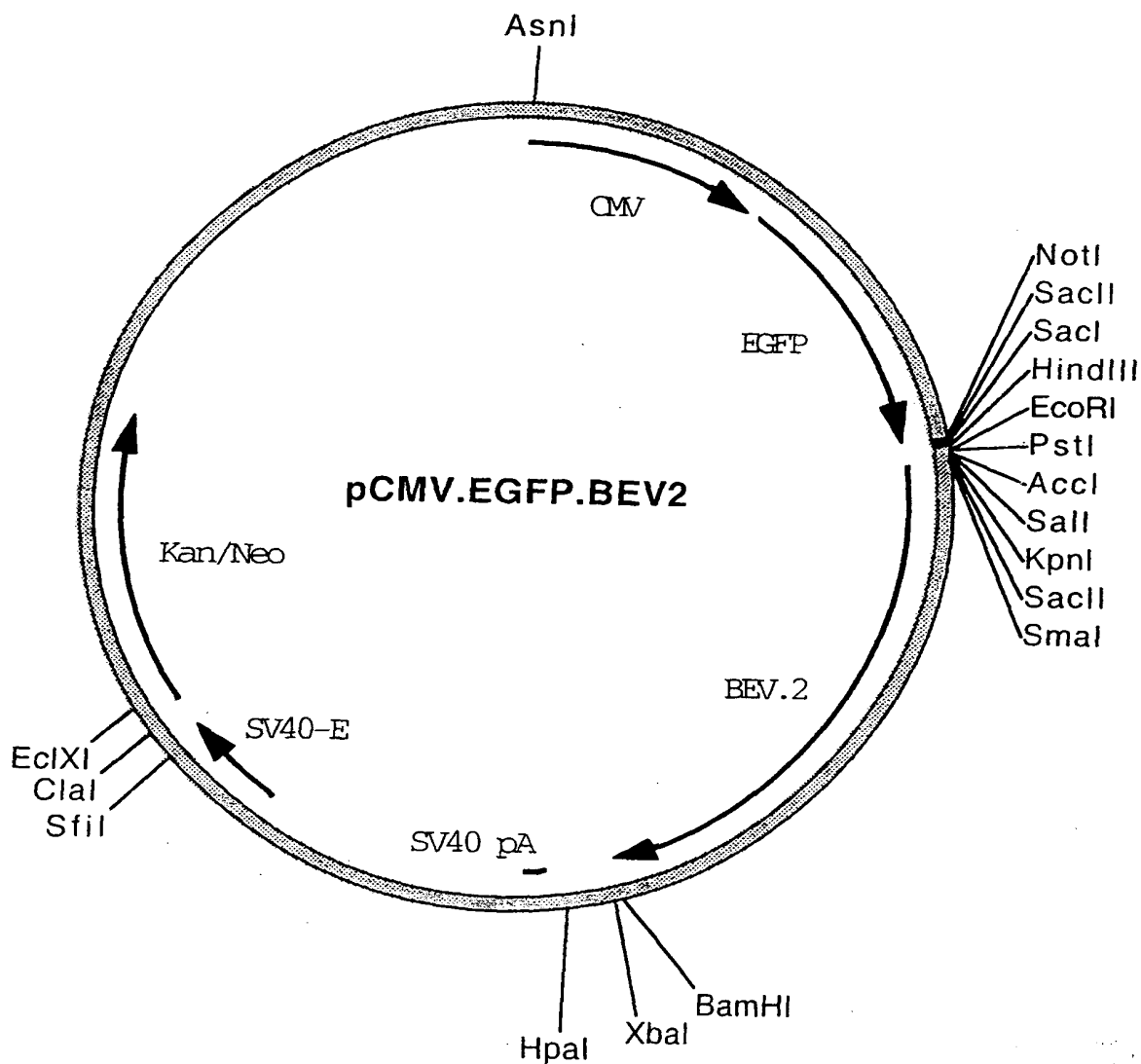
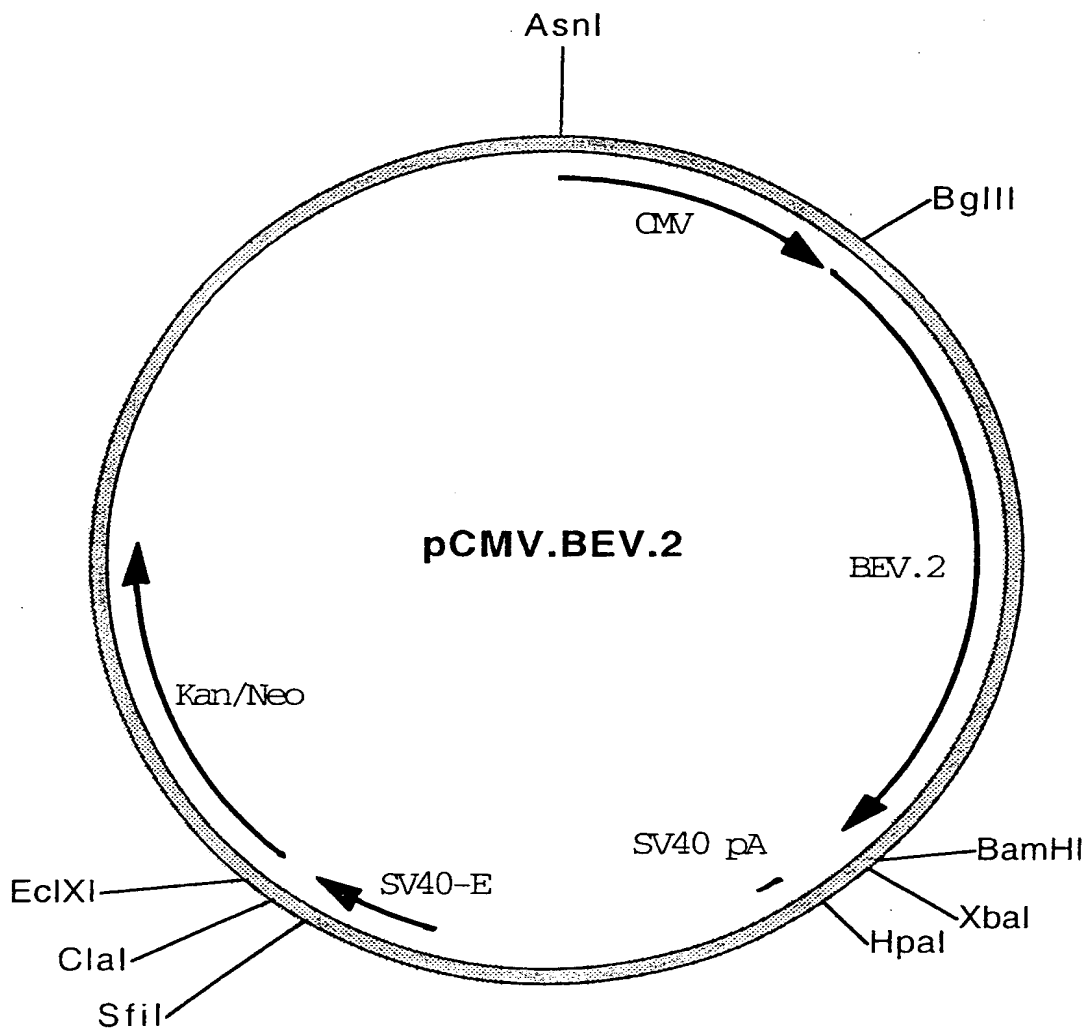


FIGURE 12

13/68

**FIGURE 13**

14/68

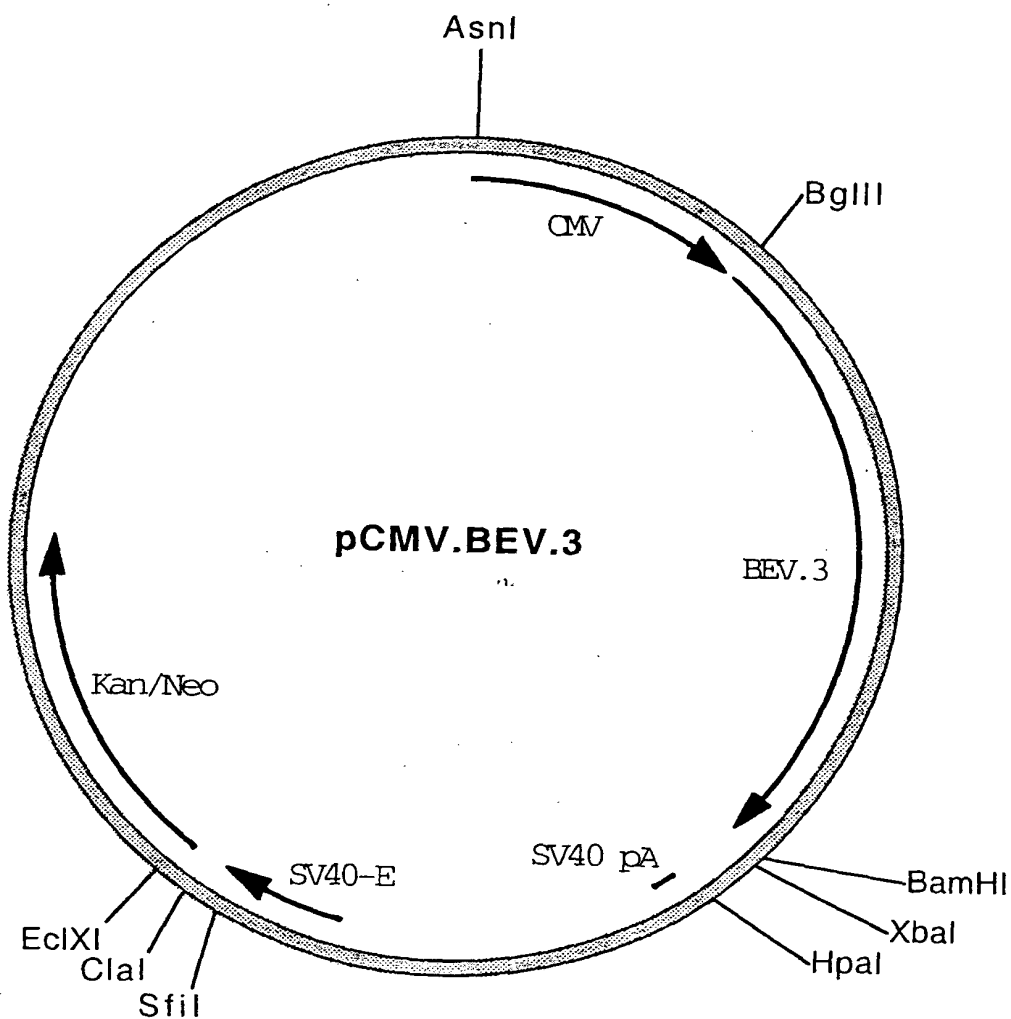
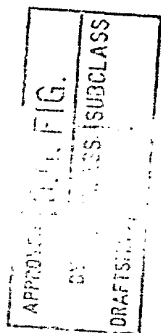
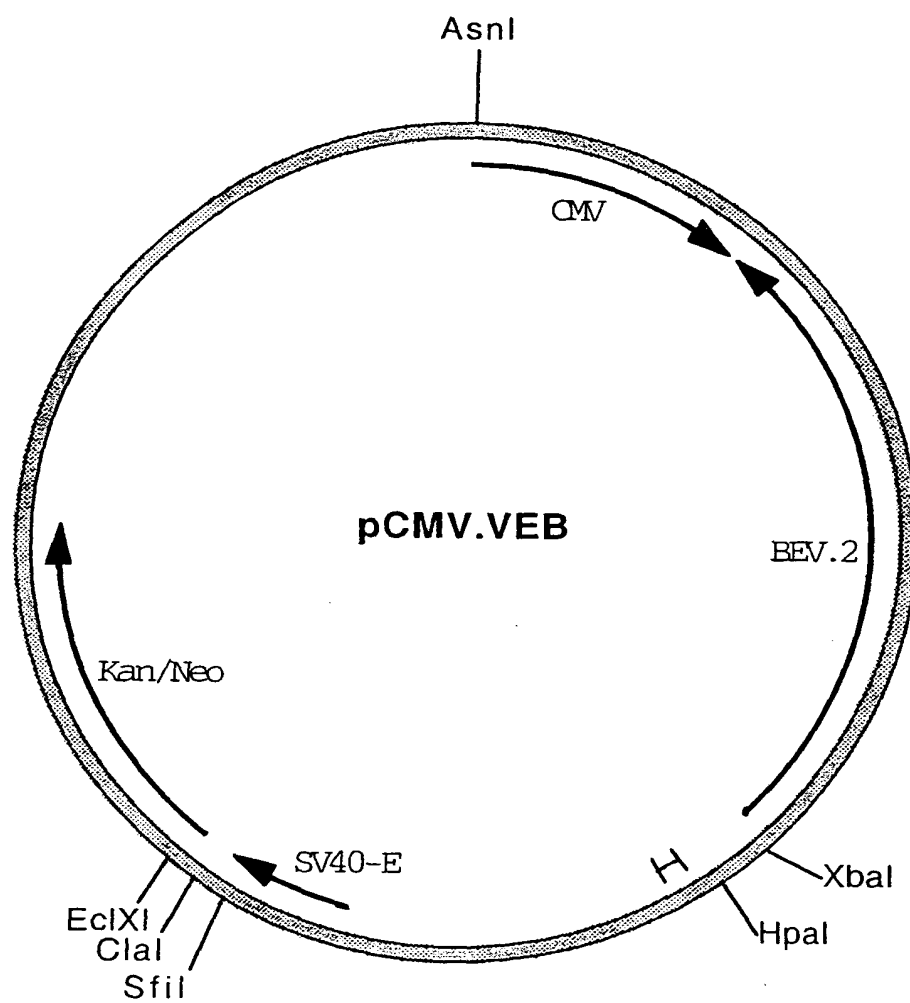
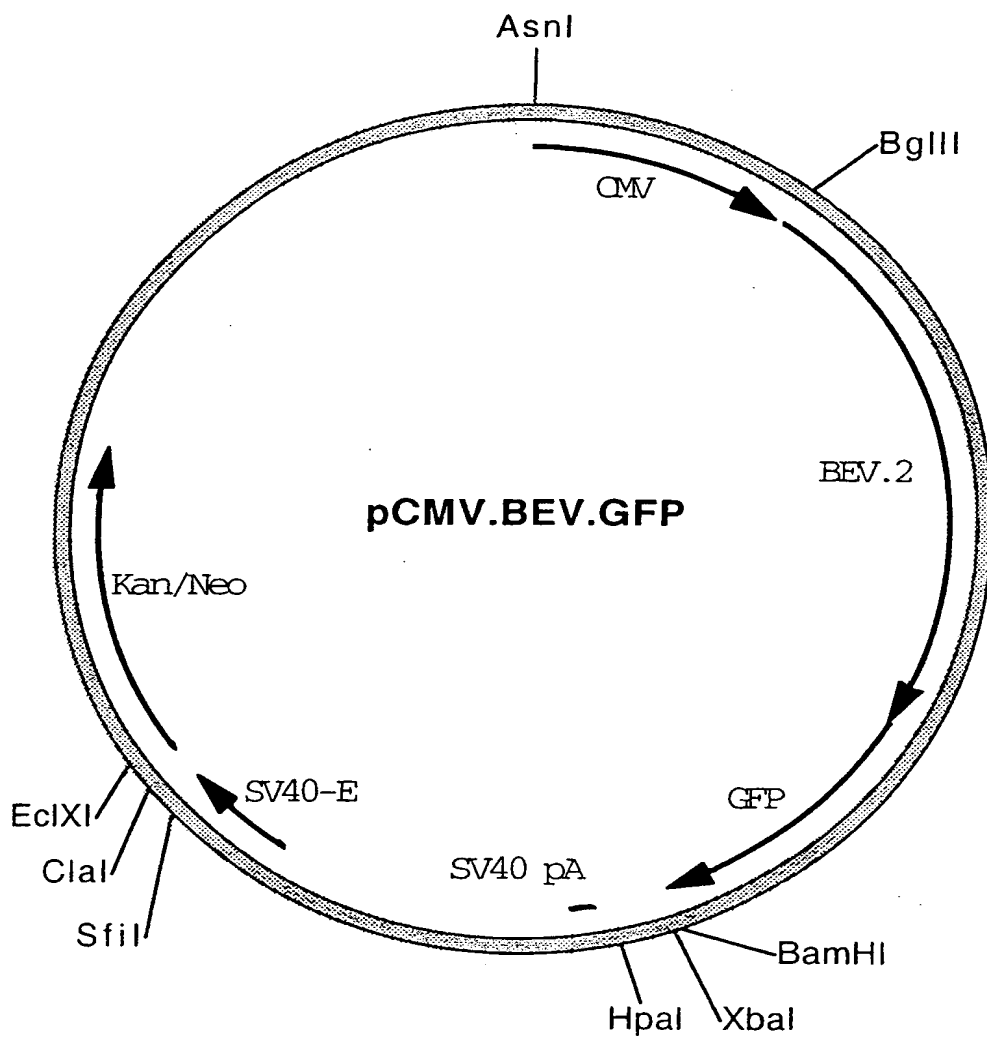


FIGURE 14



SUBSTITUTE SHEET (Rule 26) (RO/AU)

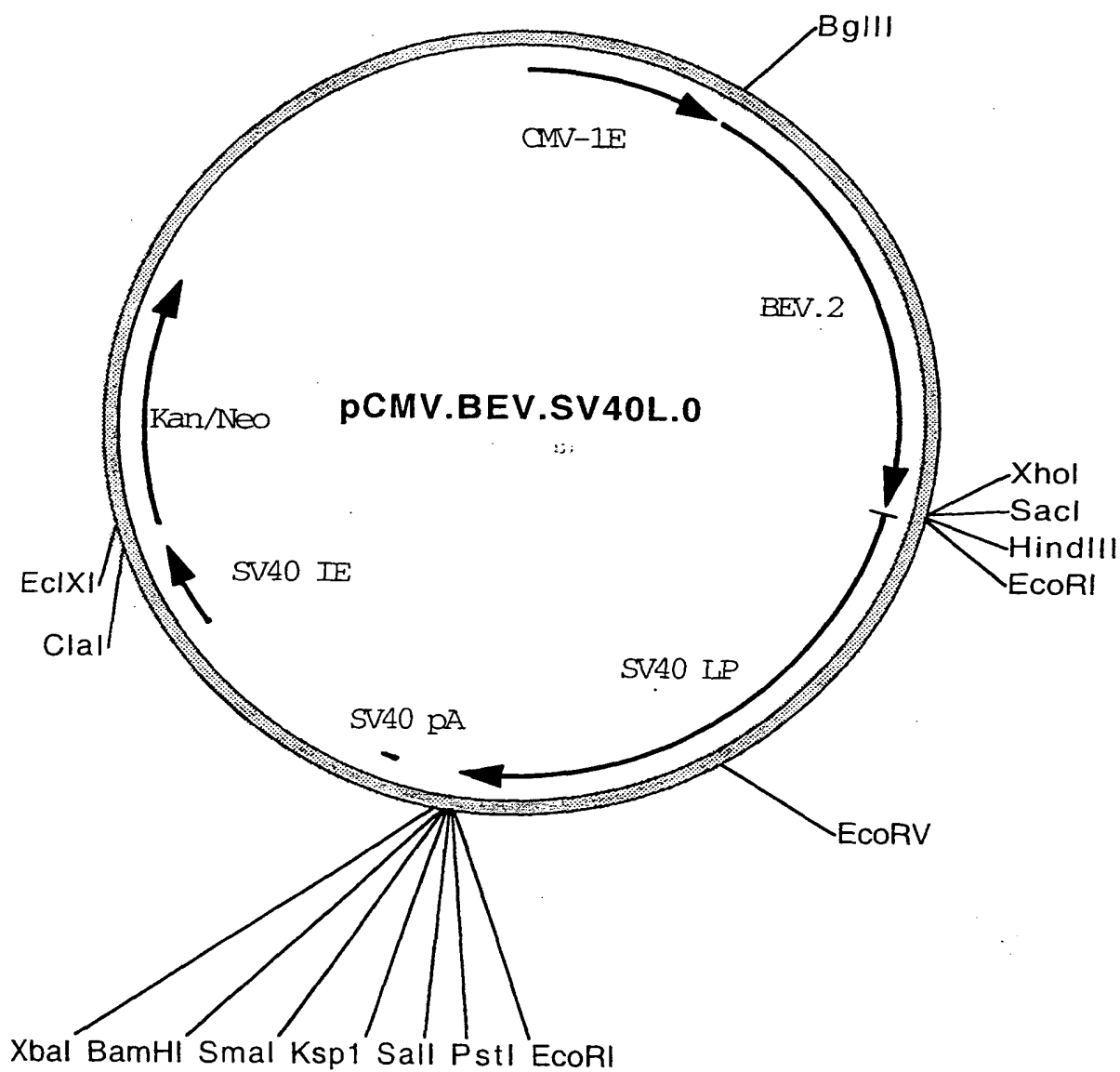
16/68

**FIGURE 16**

APPROVED BY DRAFTSMAN

FIG. 16

APPROVED	FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	



**FIGURE 17**

18/68

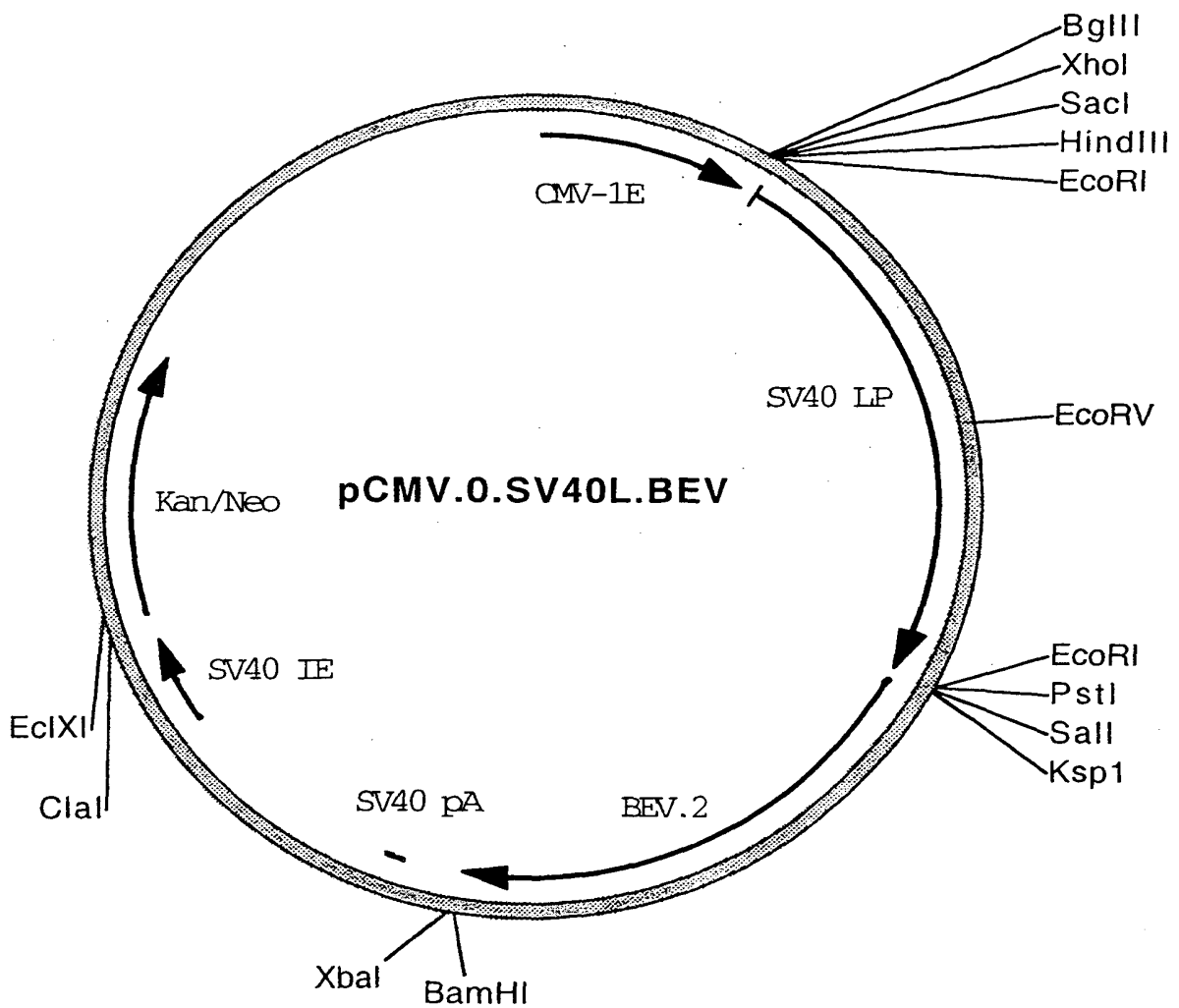


FIGURE 18

19/68

APPROVED	FIG.
BY	55 SUBCLASS
DRAFT	

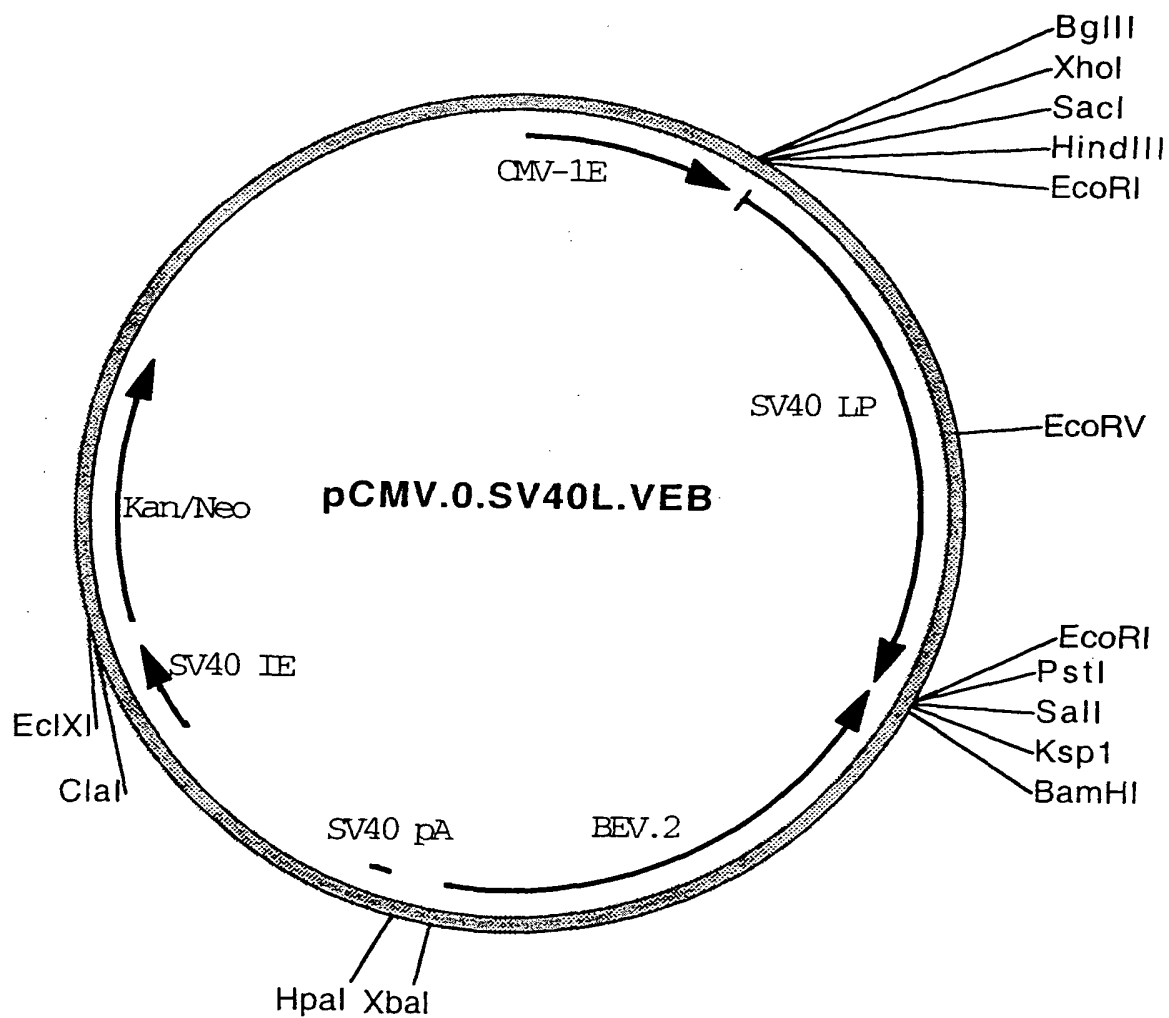
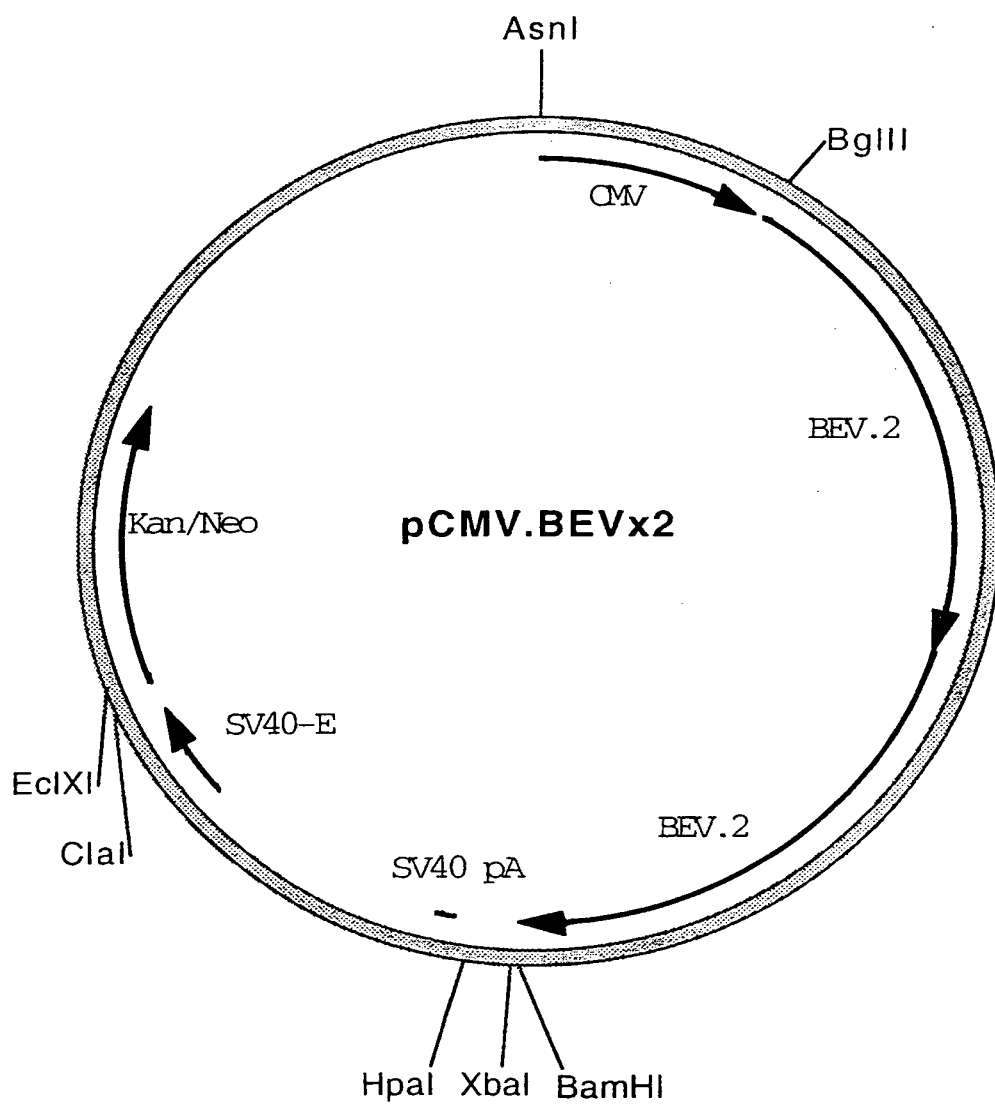


FIGURE 19

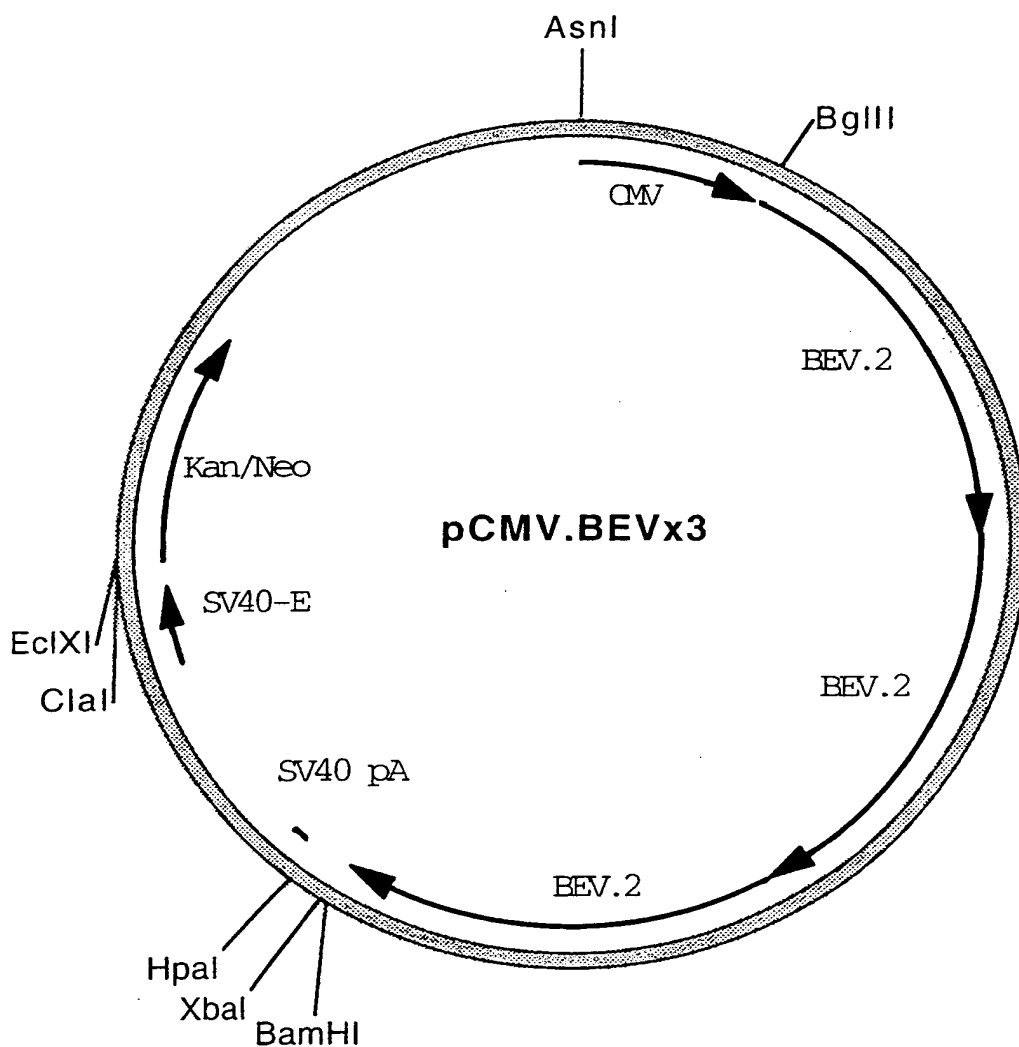
20/68

FIG.	SUBCLASS
APPROV.	DRAFTSMAN

pCMV.BEVx2

**FIGURE 20**

21/68

**FIGURE 21**

22/68

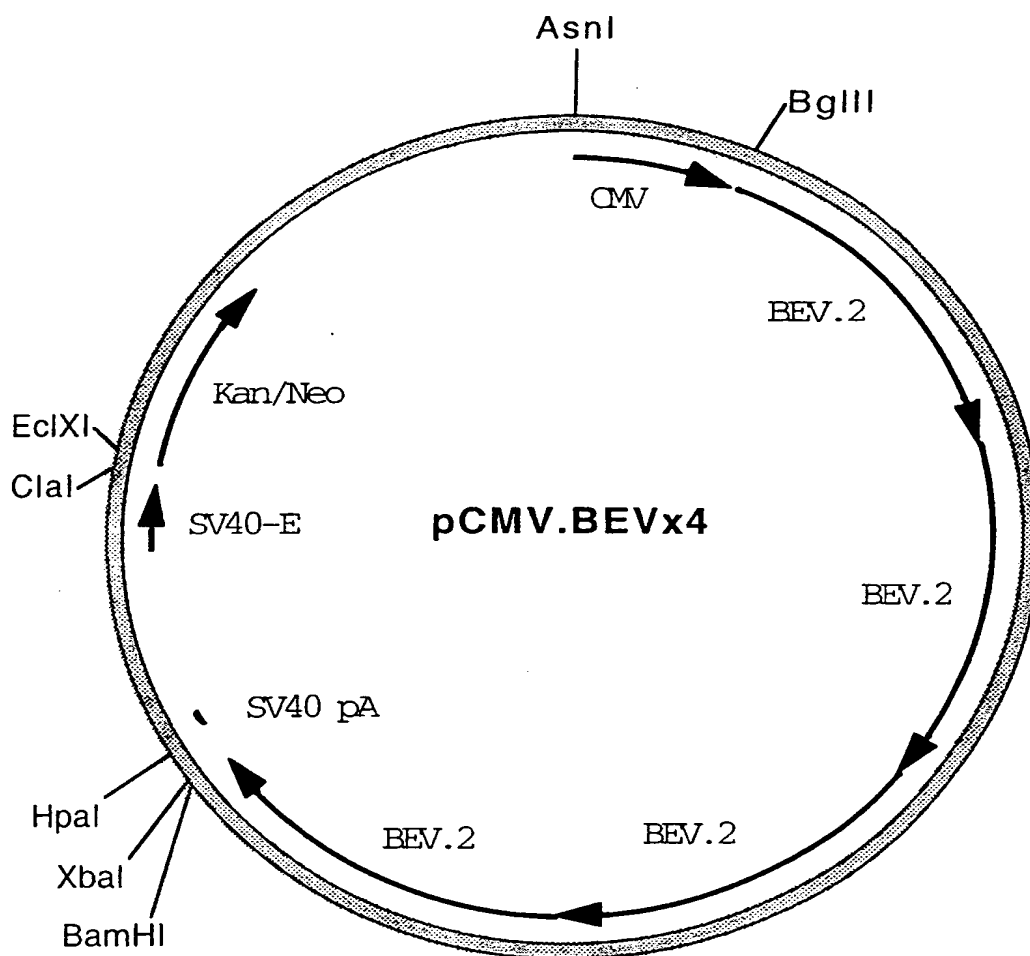
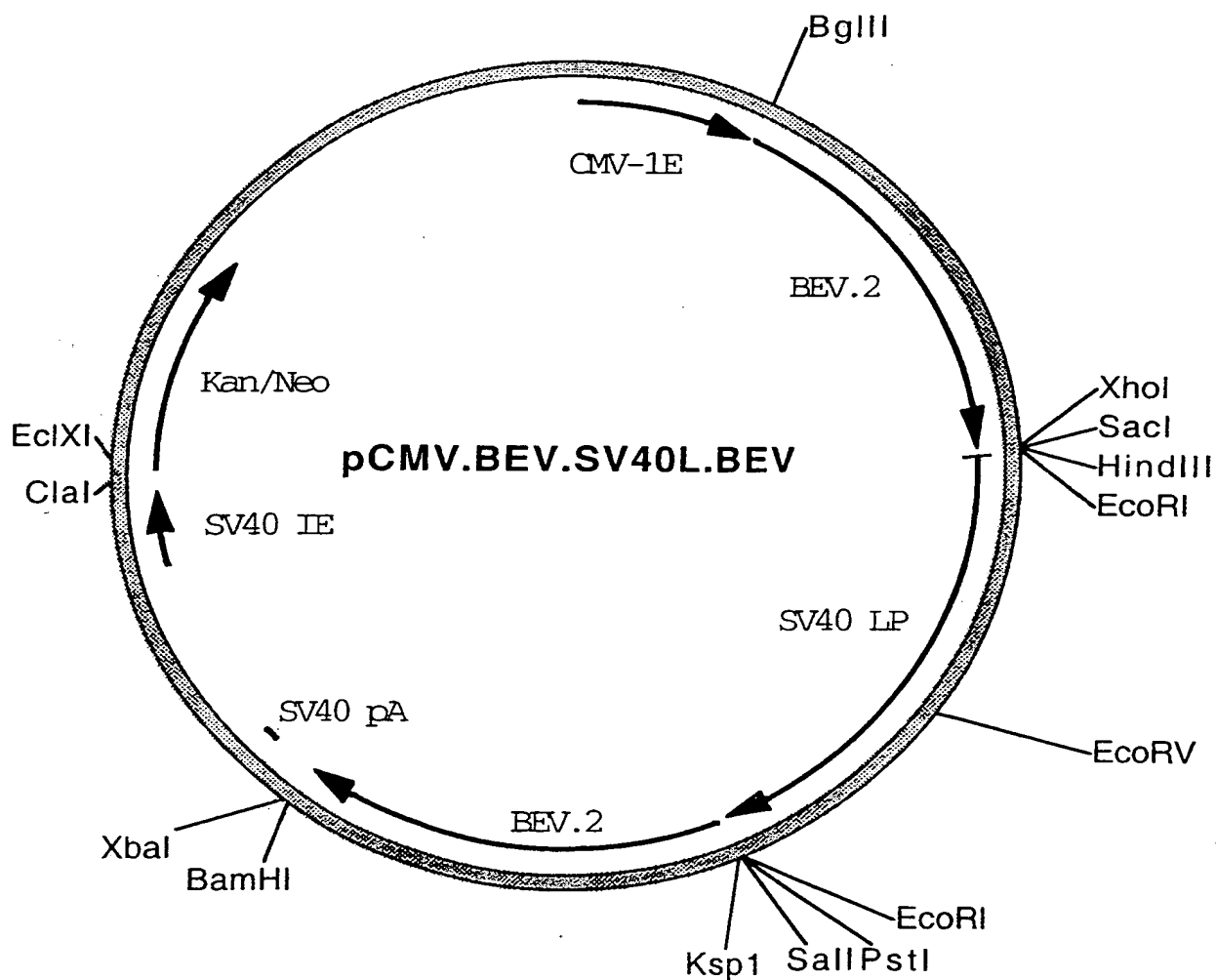
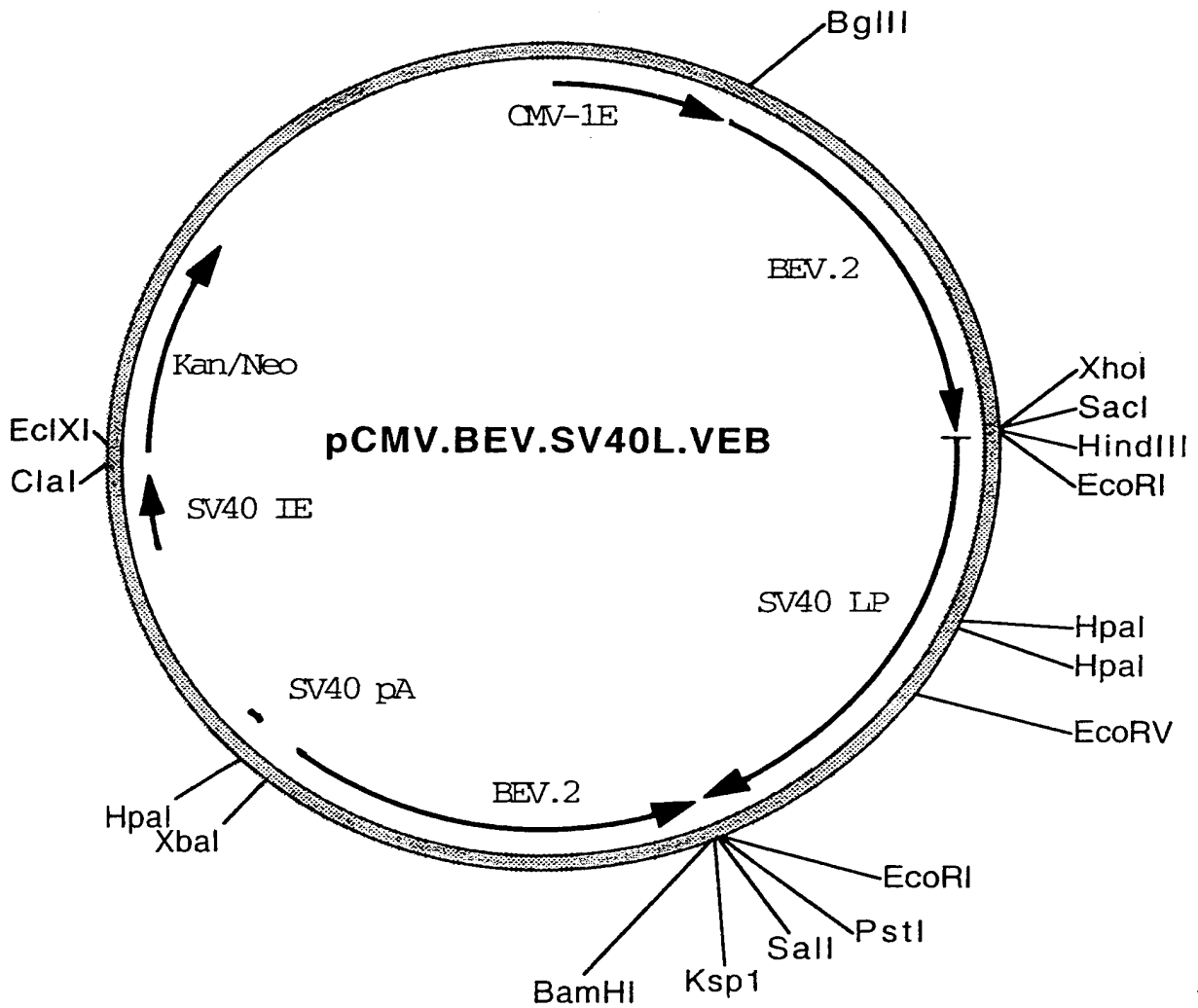
**FIGURE 22**

FIG.	
CLASS	SUBCLASS
DRAFTSMAN	



**FIGURE 23**

APPROVED	FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

**FIGURE 24**

25/68

APPROVED FOR FIG.	BY	CLASS	SUBCLASS
DRAFTSMAN			

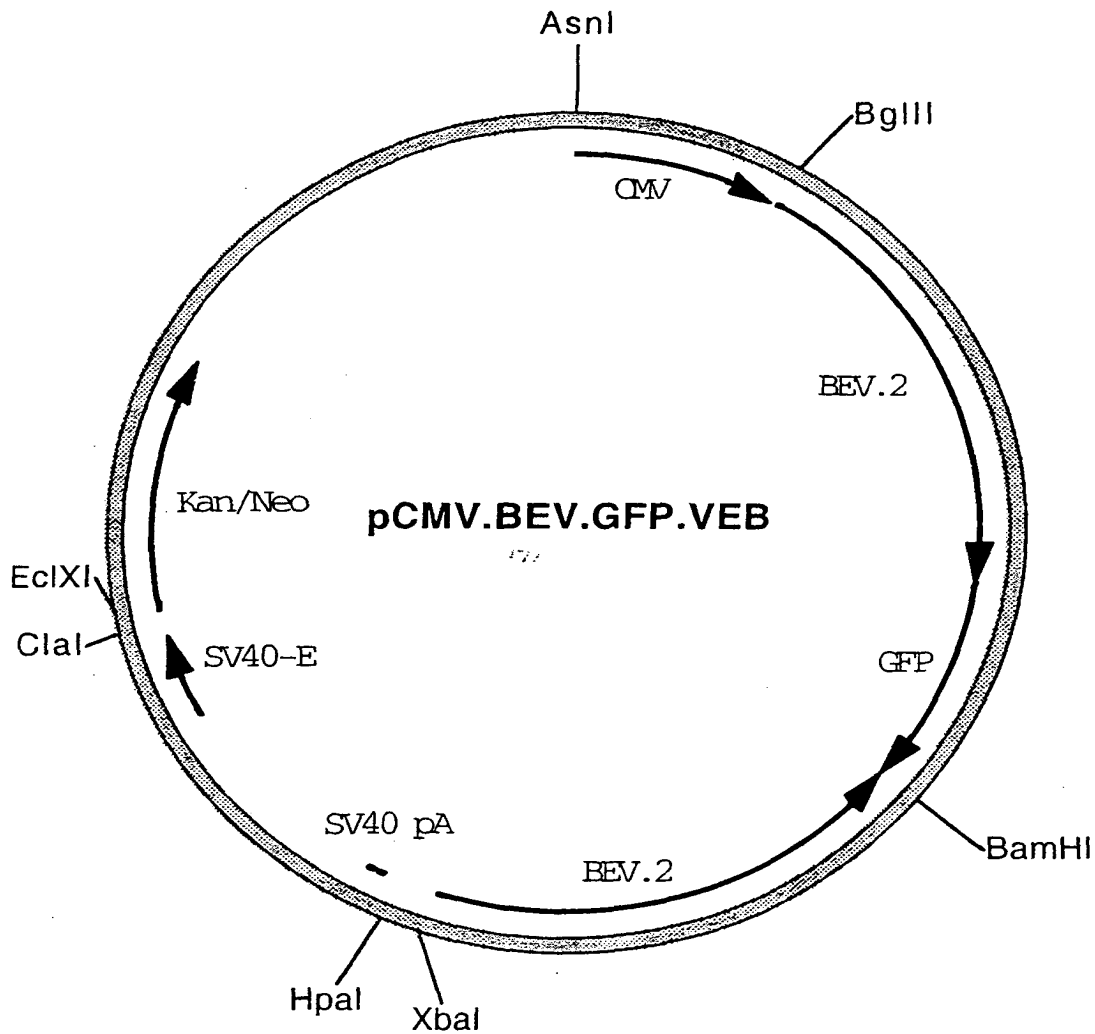
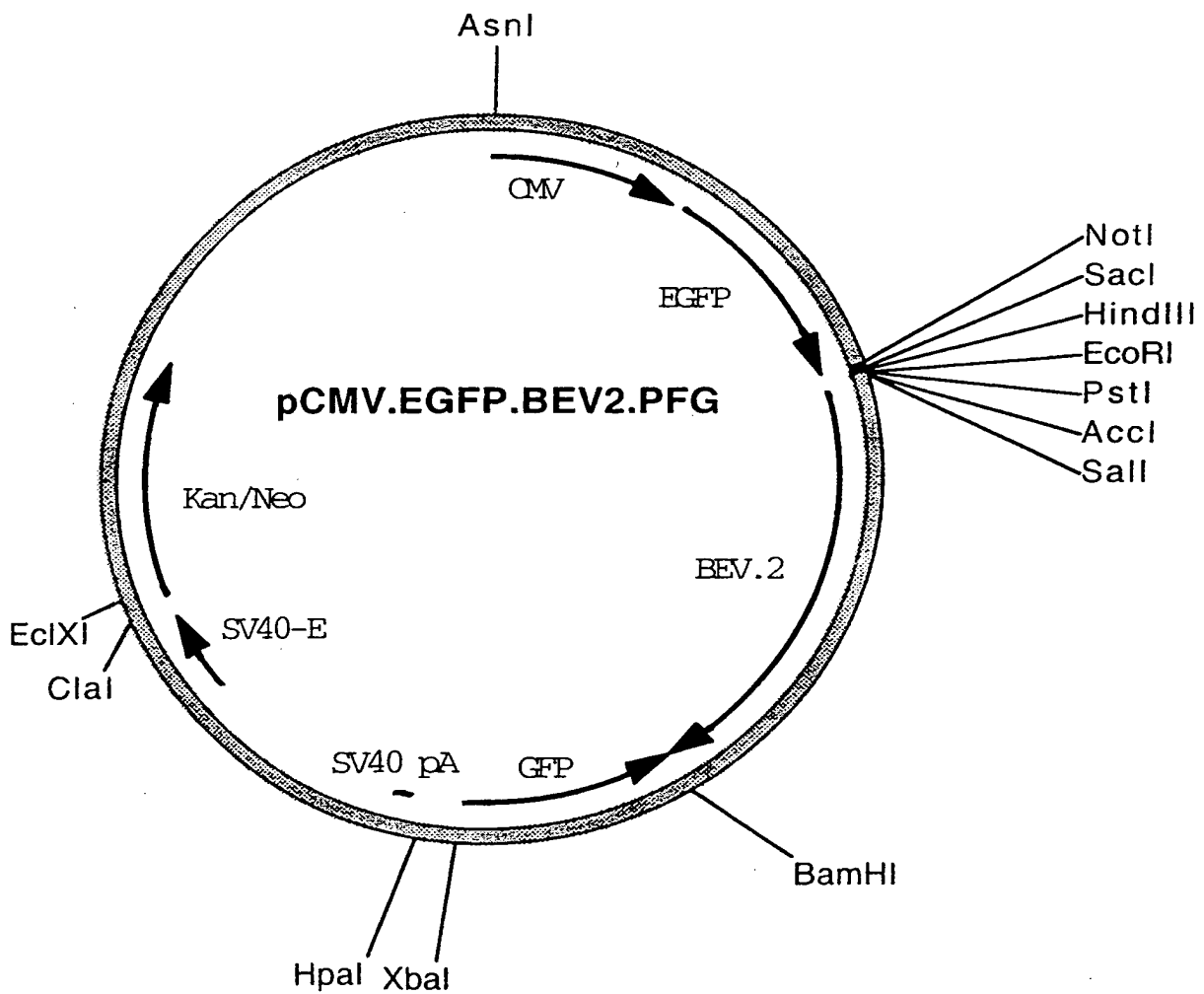


FIGURE 25

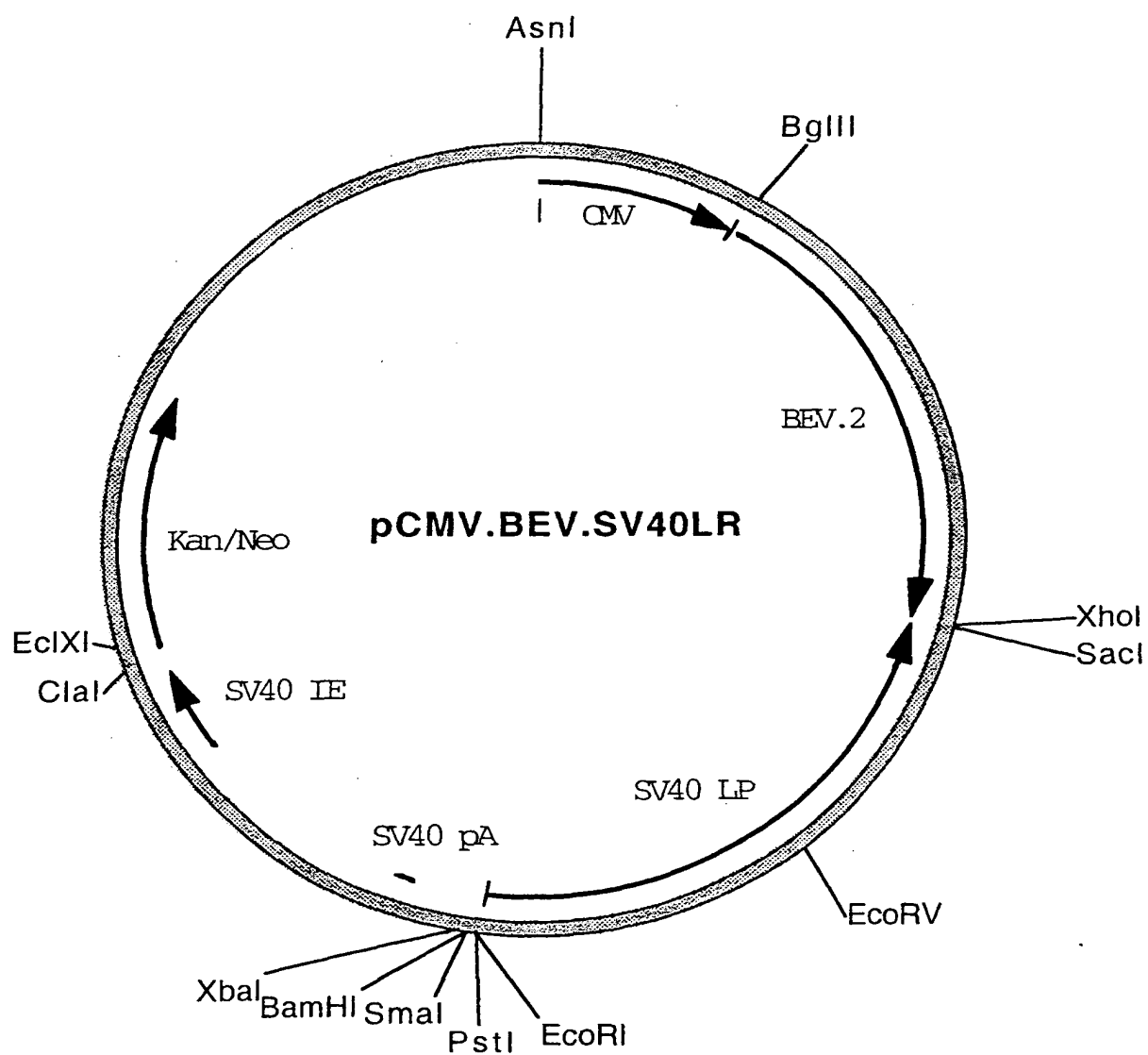
APPROVED	D. G. FIG.
BY	CLASS USE/CLASS
DRAFTSMAN	

[illegible]

**FIGURE 26**

27/68

APPROVED	FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

**FIGURE 27**

28/68

APPROVED FOR PUBLICATION	FIG.
BY	CLASS
	SUBCLASS
DRAFTSMAN	

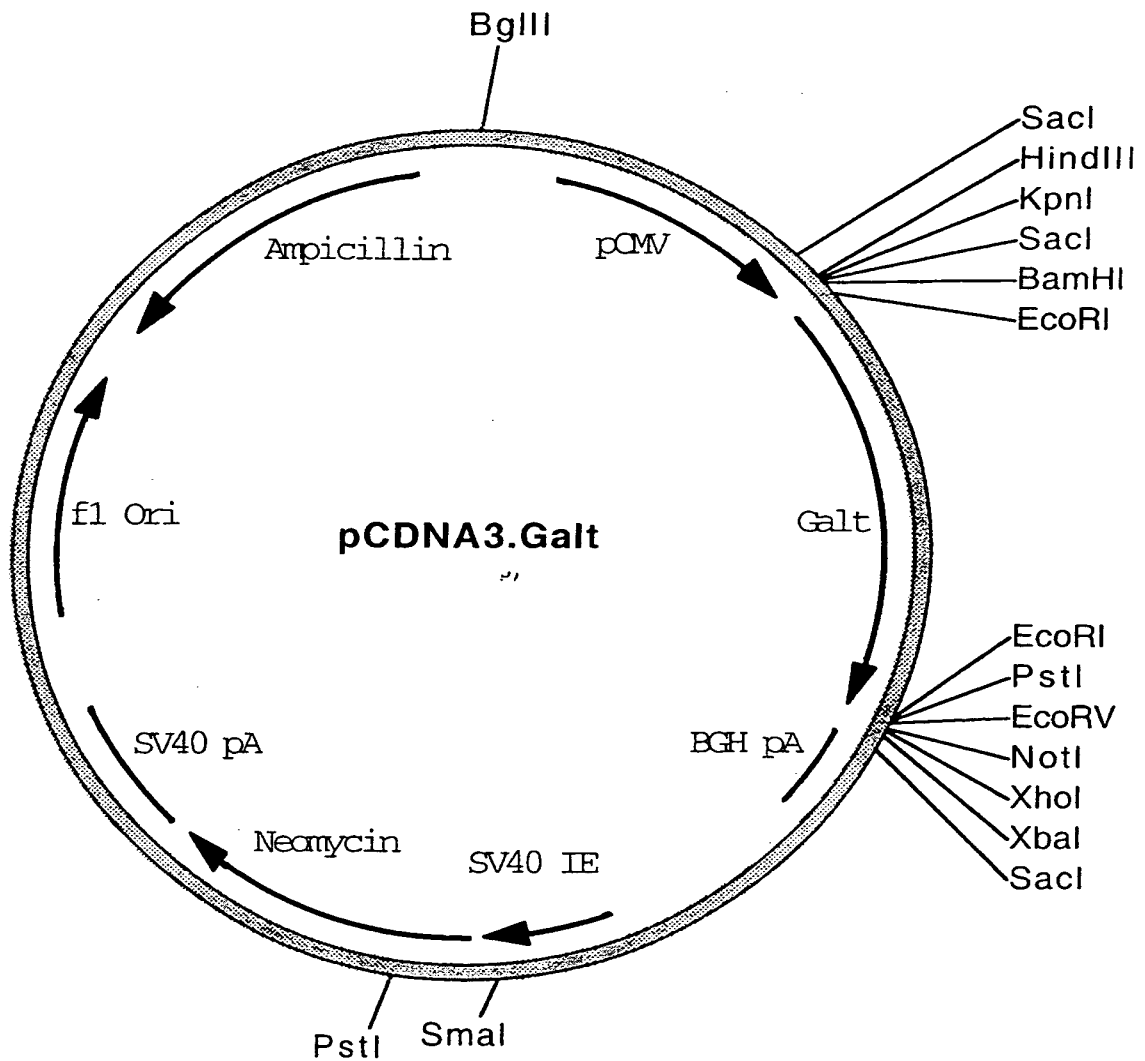
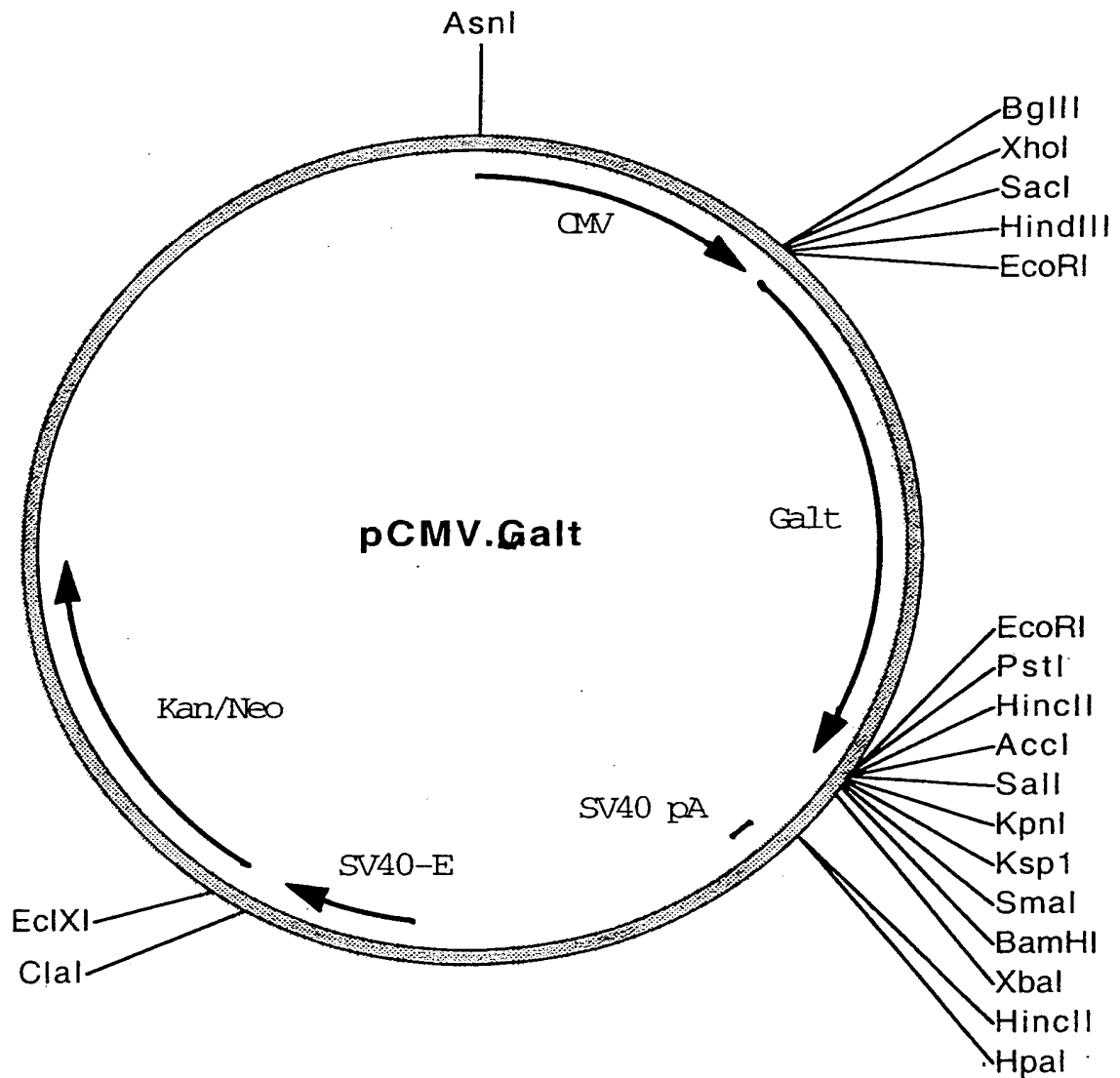


FIGURE 28

**29/68**



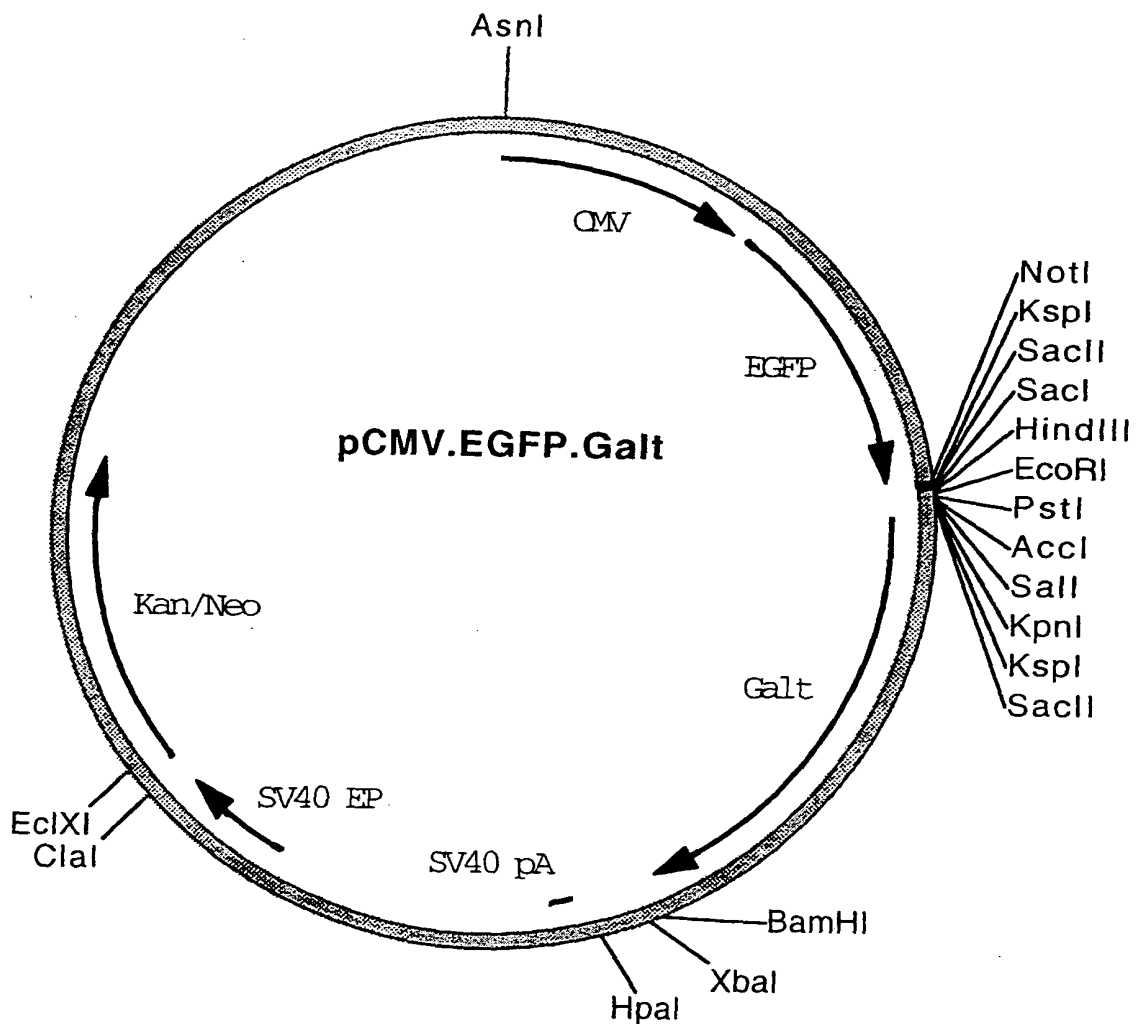
**FIGURE 29**

APPROVED	J.G. FIG.
BY	CLASS SUBCLASS
DRAFTING	

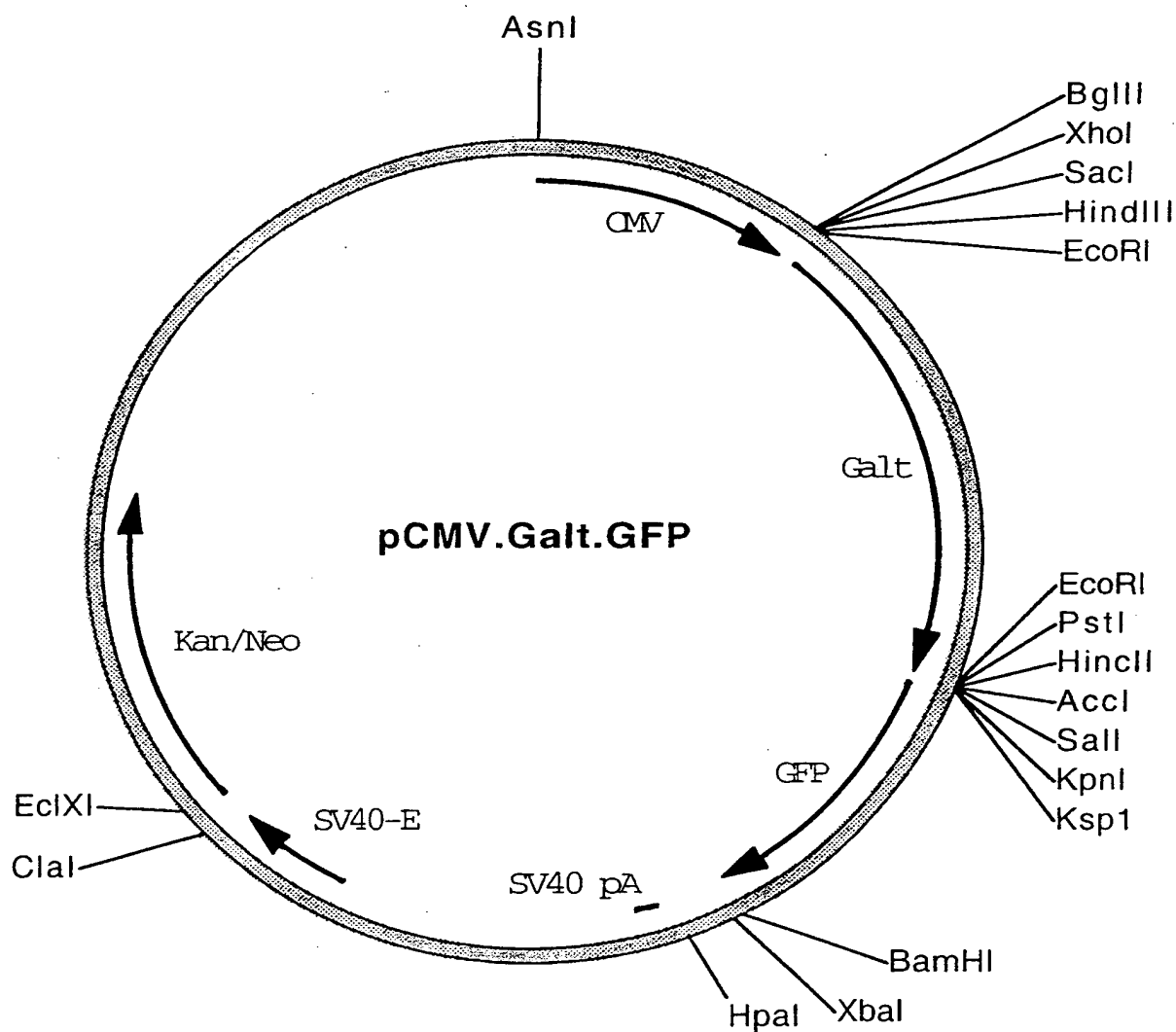
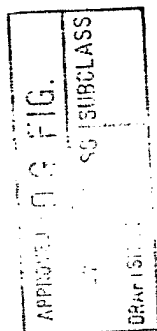
24226 24227 24228 24229 24230 24231 24232 24233 24234 24235 24236 24237 24238 24239 24240 24241 24242 24243 24244 24245 24246 24247 24248 24249 24250 24251 24252 24253 24254 24255 24256 24257 24258 24259 24260 24261 24262 24263 24264 24265 24266 24267 24268 24269 24270 24271 24272 24273 24274 24275 24276 24277 24278 24279 24280 24281 24282 24283 24284 24285 24286 24287 24288 24289 24290 24291 24292 24293 24294 24295 24296 24297 24298 24299 24300 24301 24302 24303 24304 24305 24306 24307 24308 24309 24310 24311 24312 24313 24314 24315 24316 24317 24318 24319 24320 24321 24322 24323 24324 24325 24326 24327 24328 24329 24330 24331 24332 24333 24334 24335 24336 24337 24338 24339 24340 24341 24342 24343 24344 24345 24346 24347 24348 24349 24350 24351 24352 24353 24354 24355 24356 24357 24358 24359 24360 24361 24362 24363 24364 24365 24366 24367 24368 24369 24370 24371 24372 24373 24374 24375 24376 24377 24378 24379 24380 24381 24382 24383 24384 24385 24386 24387 24388 24389 24390 24391 24392 24393 24394 24395 24396 24397 24398 24399 24400 24401 24402 24403 24404 24405 24406 24407 24408 24409 24410 24411 24412 24413 24414 24415 24416 24417 24418 24419 24420 24421 24422 24423 24424 24425 24426 24427 24428 24429 24430 24431 24432 24433 24434 24435 24436 24437 24438 24439 24440 24441 24442 24443 24444 24445 24446 24447 24448 24449 24450 24451 24452 24453 24454 24455 24456 24457 24458 24459 24460 24461 24462 24463 24464 24465 24466 24467 24468 24469 24470 24471 24472 24473 24474 24475 24476 24477 24478 24479 24480 24481 24482 24483 24484 24485 24486 24487 24488 24489 24490 24491 24492 24493 24494 24495 24496 24497 24498 24499 24500 24501 24502 24503 24504 24505 24506 24507 24508 24509 24510 24511 24512 24513 24514 24515 24516 24517 24518 24519 24520 24521 24522 24523 24524 24525 24526 24527 24528 24529 24530 24531 24532 24533 24534 24535 24536 24537 24538 24539 24540 24541 24542 24543 24544 24545 24546 24547 24548 24549 24550 24551 24552 24553 24554 24555 24556 24557 24558 24559 24560 24561 24562 24563 24564 24565 24566 24567 24568 24569 24570 24571 24572 24573 24574 24575 24576 24577 24578 24579 24580 24581 24582 24583 24584 24585 24586 24587 24588 24589 24590 24591 24592 24593 24594 24595 24596 24597 24598 24599 24600 24601 24602 24603 24604 24605 24606 24607 24608 24609 24610 24611 24612 24613 24614 24615 24616 24617 24618 24619 24620 24621 24622 24623 24624 24625 24626 24627 24628 24629 24630 24631 24632 24633 24634 24635 24636 24637 24638 24639 24640 24641 24642 24643 24644 24645 24646 24647 24648 24649 24650 24651 24652 24653 24654 24655 24656 24657 24658 24659 24660 24661 24662 24663 24664 24665 24666 24667 24668 24669 24670 24671 24672 24673 24674 24675 24676 24677 24678 24679 24680 24681 24682 24683 24684 24685 24686 24687 24688 24689 24690 24691 24692 24693 24694 24695 24696 24697 24698 24699 24700 24701 24702 24703 24704 24705 24706 24707 24708 24709 24710 24711 24712 24713 24714 24715 24716 24717 24718 24719 24720 24721 24722 24723 24724 24725 24726 24727 24728 24729 24730 24731 24732 24733 24734 24735 24736 24737 24738 24739 24740 24741 24742 24743 24744 24745 24746 24747 24748 24749 24750 24751 24752 24753 24754 24755 24756 24757 24758 24759 24760 24761 24762 24763 24764 24765 24766 24767 24768 24769 24770 24771 24772 24773 24774 24775 24776 24777 24778 24779 24780 24781 24782 24783 24784 24785 24786 24787 24788 24789 24790 24791 24792 24793 24794 24795 24796 24797 24798 24799 24800 24801 24802 24803 24804 24805 24806 24807 24808 24809 24810 24811 24812 24813 24814 24815 24816 24817 24818 24819 24820 24821 24822 24823 24824 24825 24826 24827 24828 24829 24830 24831 24832 24833 24834 24835 24836 24837 24838 24839 24840 24841 24842 24843 24844 24845 24846 24847 24848 24849 24850 24851 24852 24853 24854 24855 24856 24857 24858 24859 24860 24861 24862 24863 24864 24865 24866 24867 24868 24869 24870 24871 24872 24873 24874 24875 24876 24877 24878 24879 24880 24881 24882 24883 24884 24885 24886 24887 24888 24889 24890 24891 24892 24893 24894 24895 24896 24897 24898 24899 24900 24901 24902 24903 24904 24905 24906 24907

30/68

APPROVED	FIG.
CLASS	SUBCLASS
DATE	

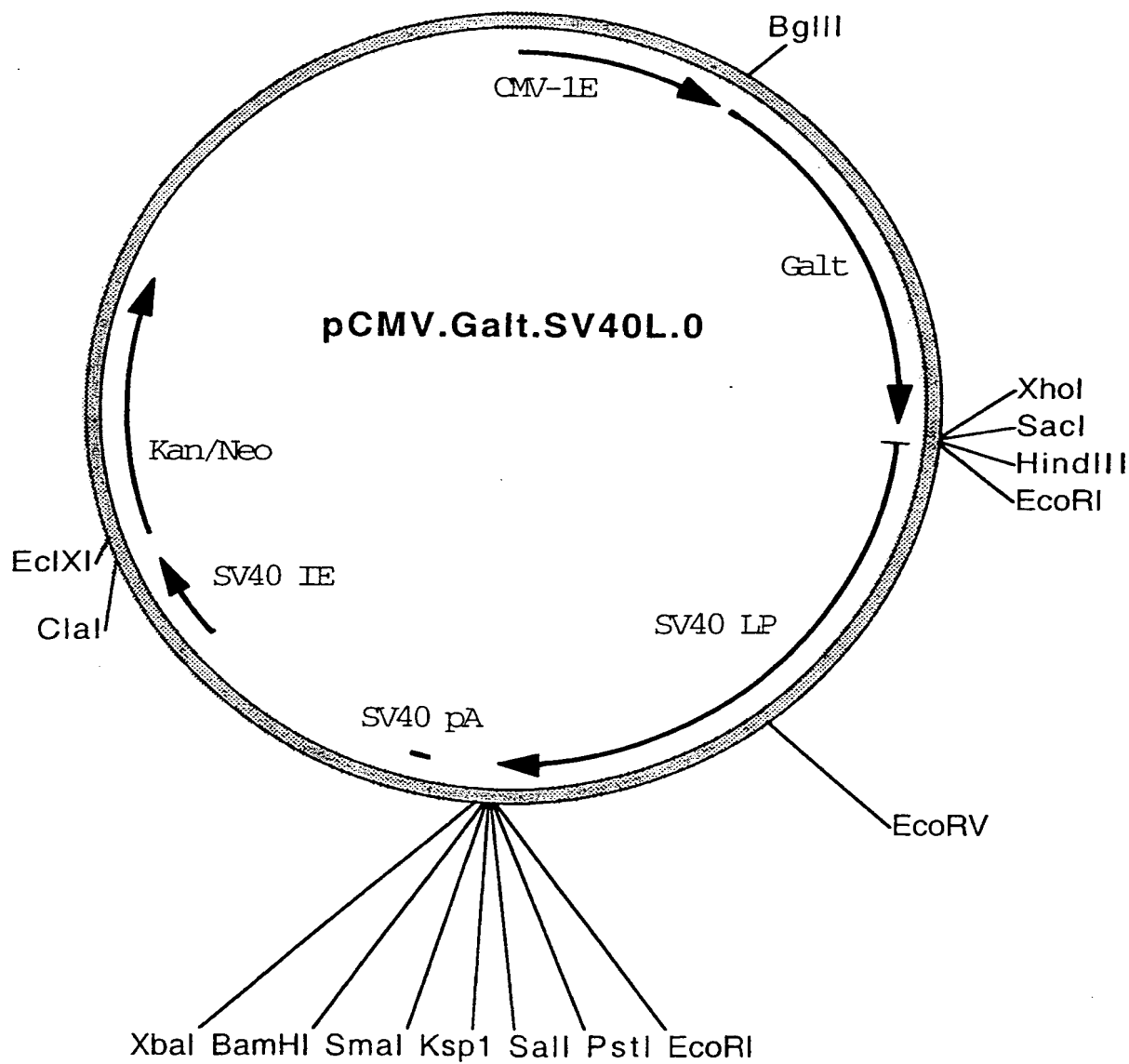
**FIGURE 30**

31/68

**FIGURE 31**

32/68

APPROVED	FIG.
DRAFTS	CLASS

**FIGURE 32**

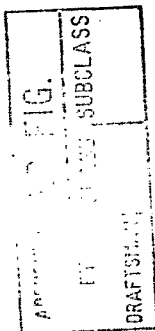
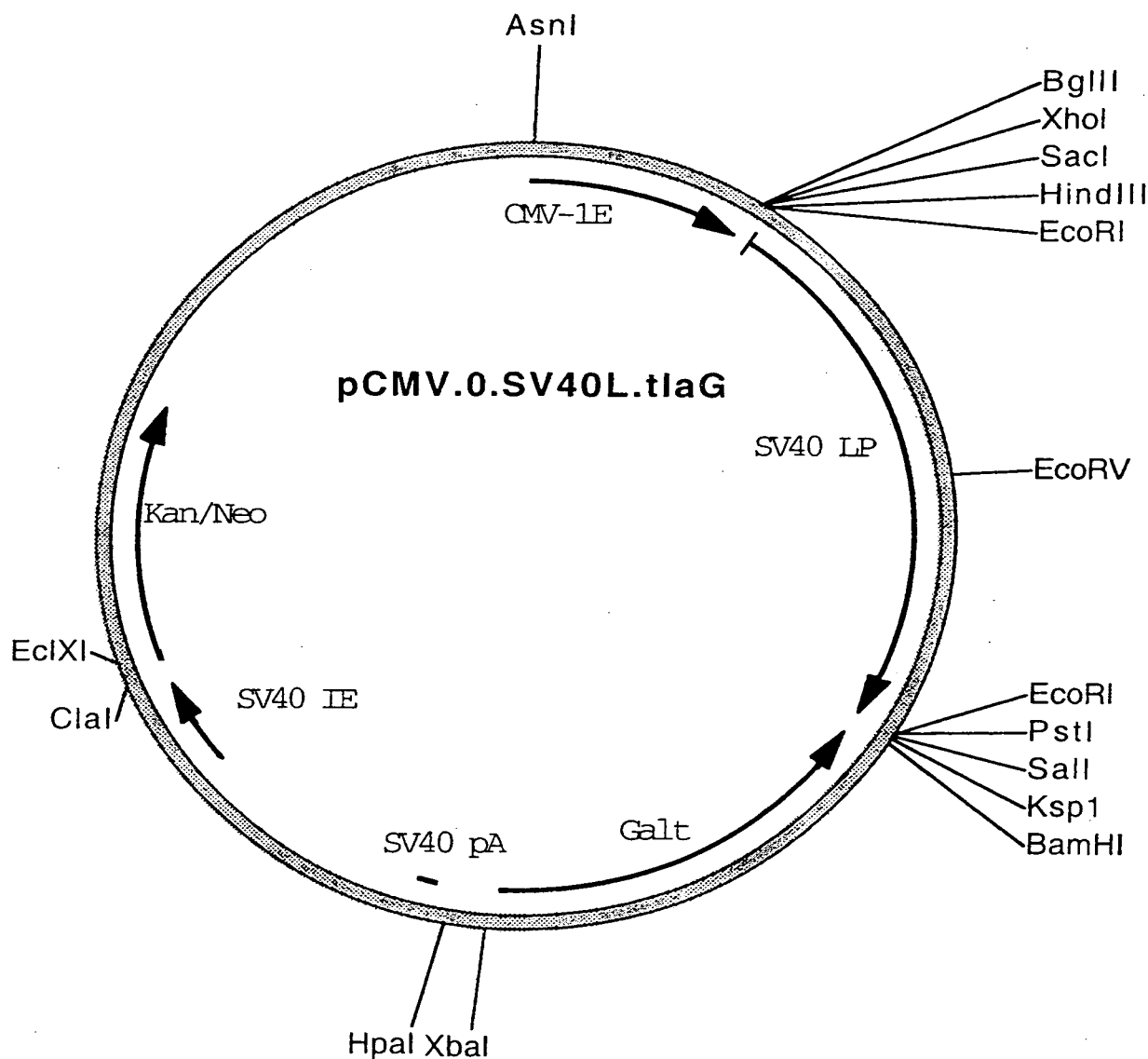


FIG. 33



**FIGURE 33**

34/68

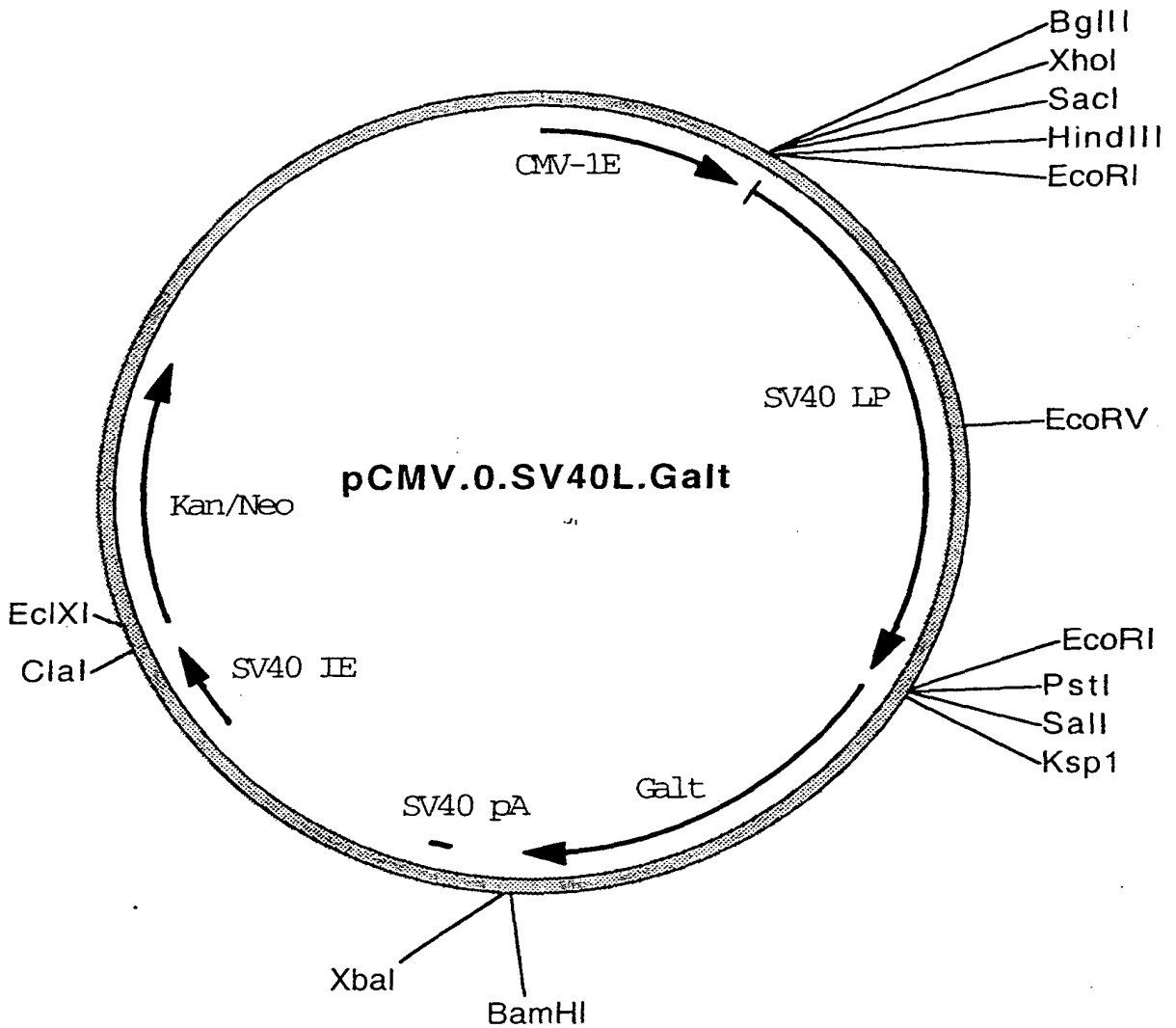
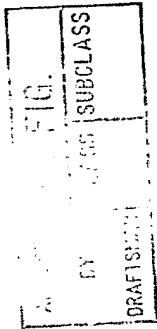
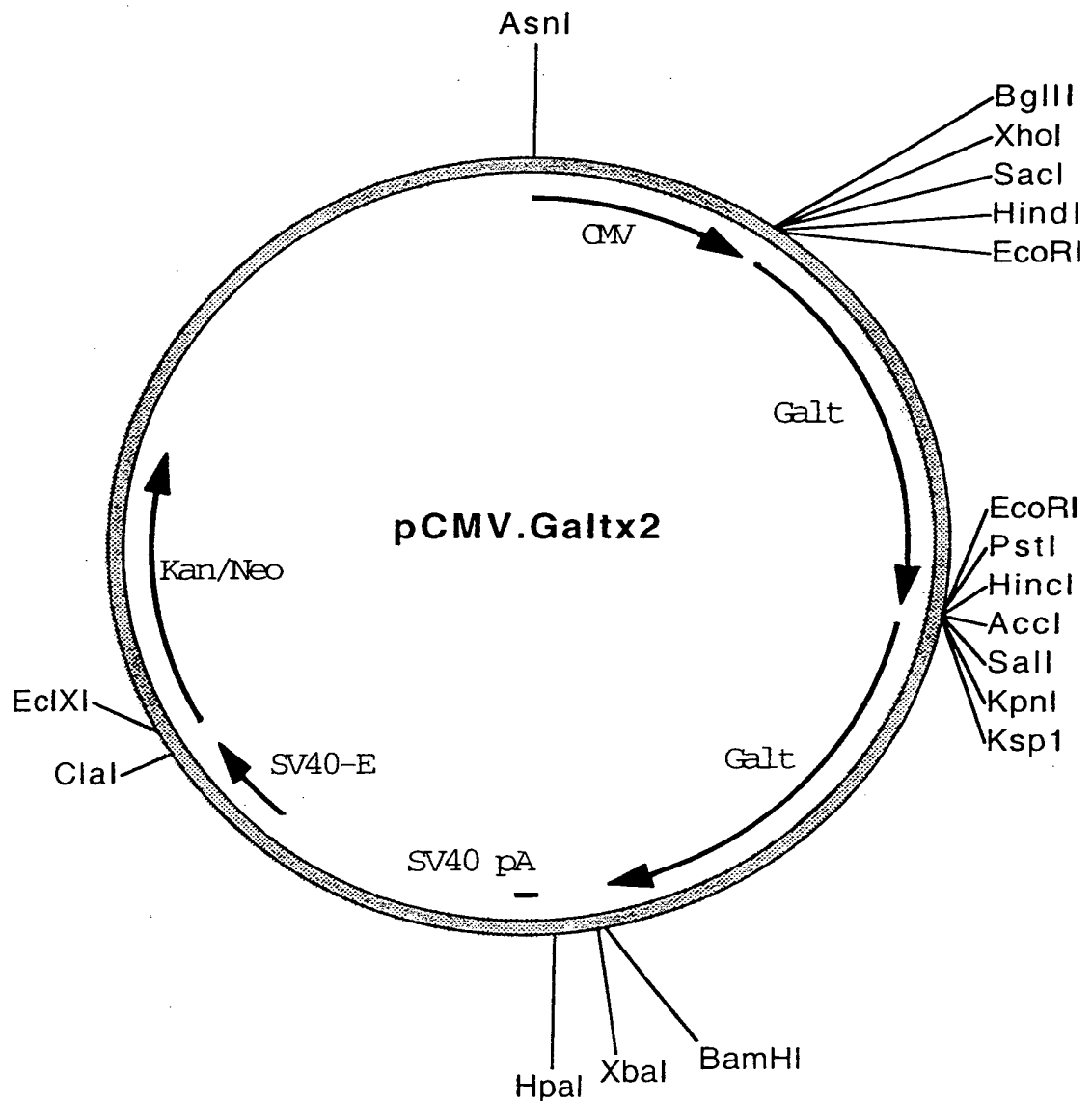


FIGURE 34

35/68

**FIGURE 35**

APPROVED	DATE	BY	CLASS
SUBCLASS			
DRAFTSMAN			

09/646807

APPROVED	FIG.	SUBCLASS
CLASS		
DRAFT		

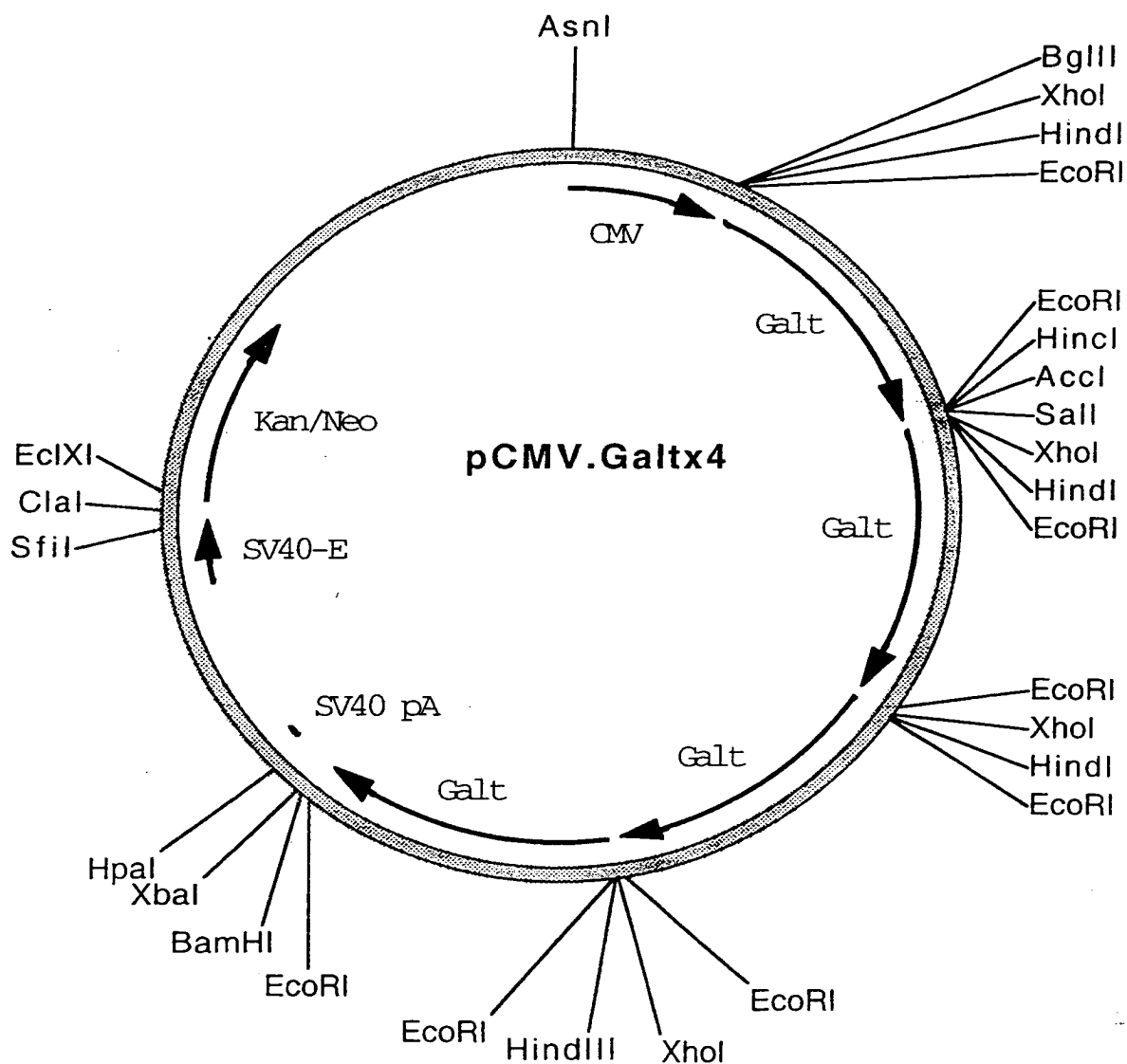


FIGURE 36

37/68

FIG.	
CLASS	SUBCLASS
EX	
DRAFTS	

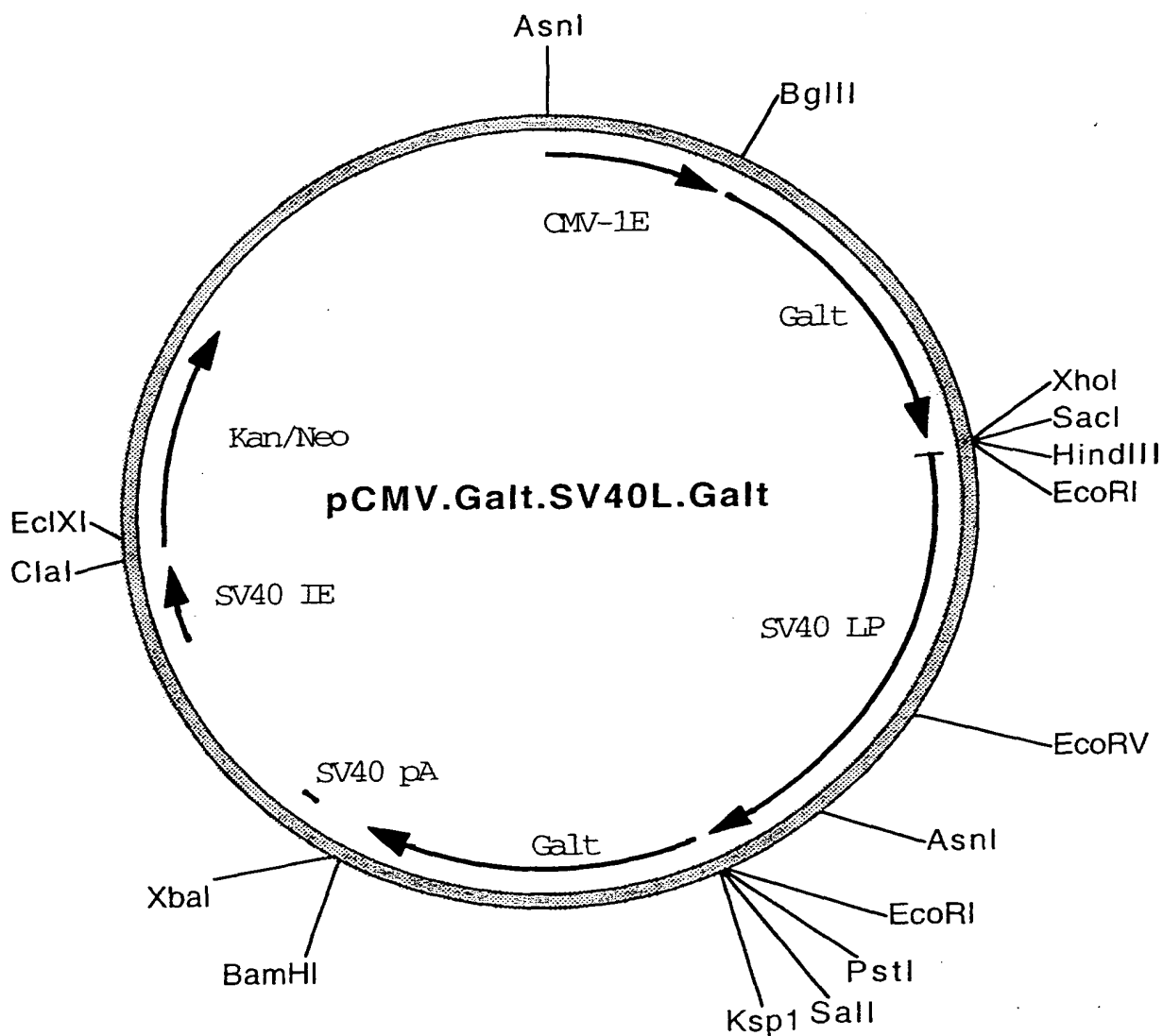


FIGURE 37

38/68

APPROVED FOR P. FIG.	CLASS	SUPPLEMENT
BY		
DRAFTSMAN		

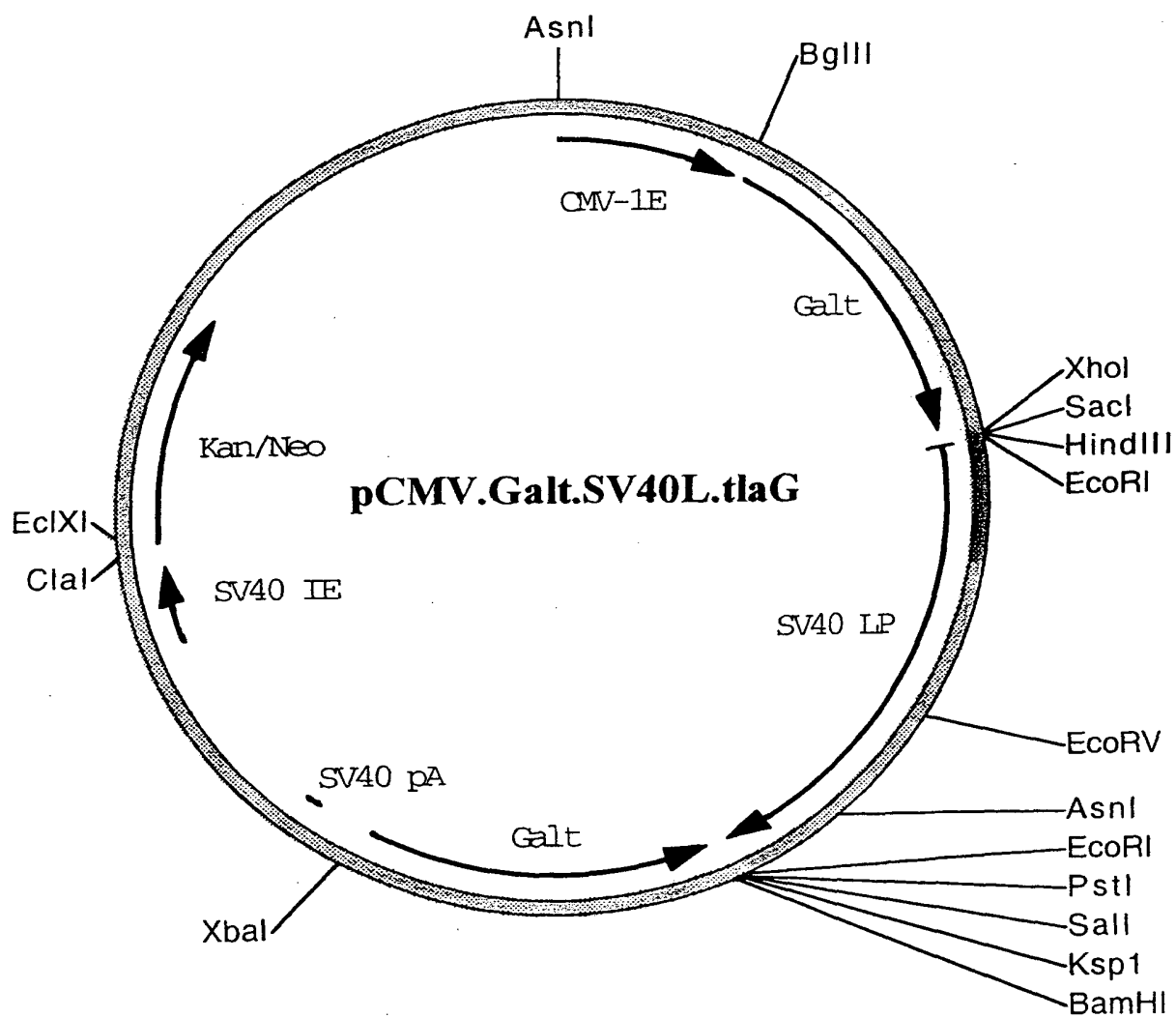


FIGURE 38

39/68

APPROVED	09. FIG.
BY	CLASS / SUBCLASS
DRAFTSMAN	

09/646807

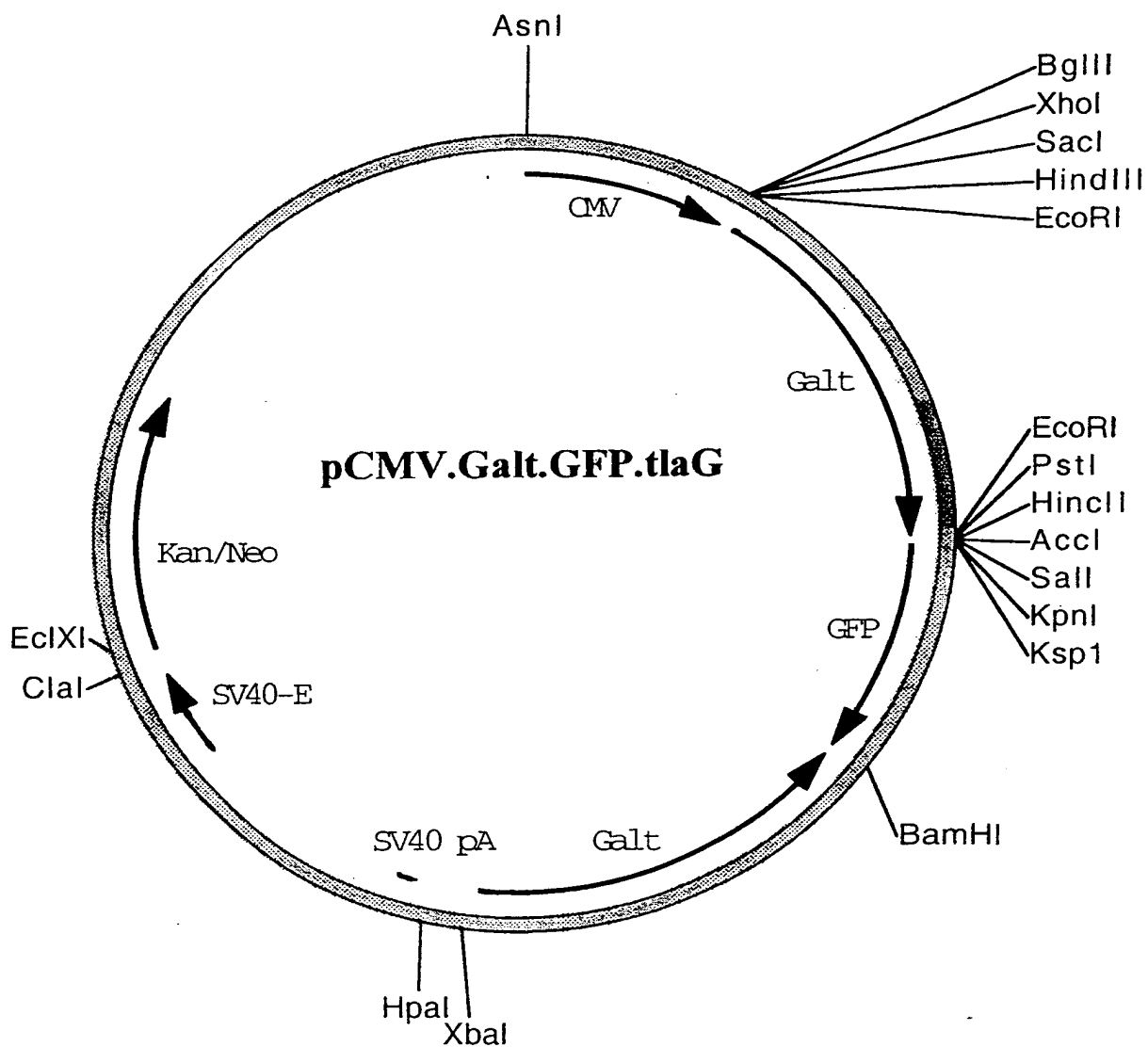
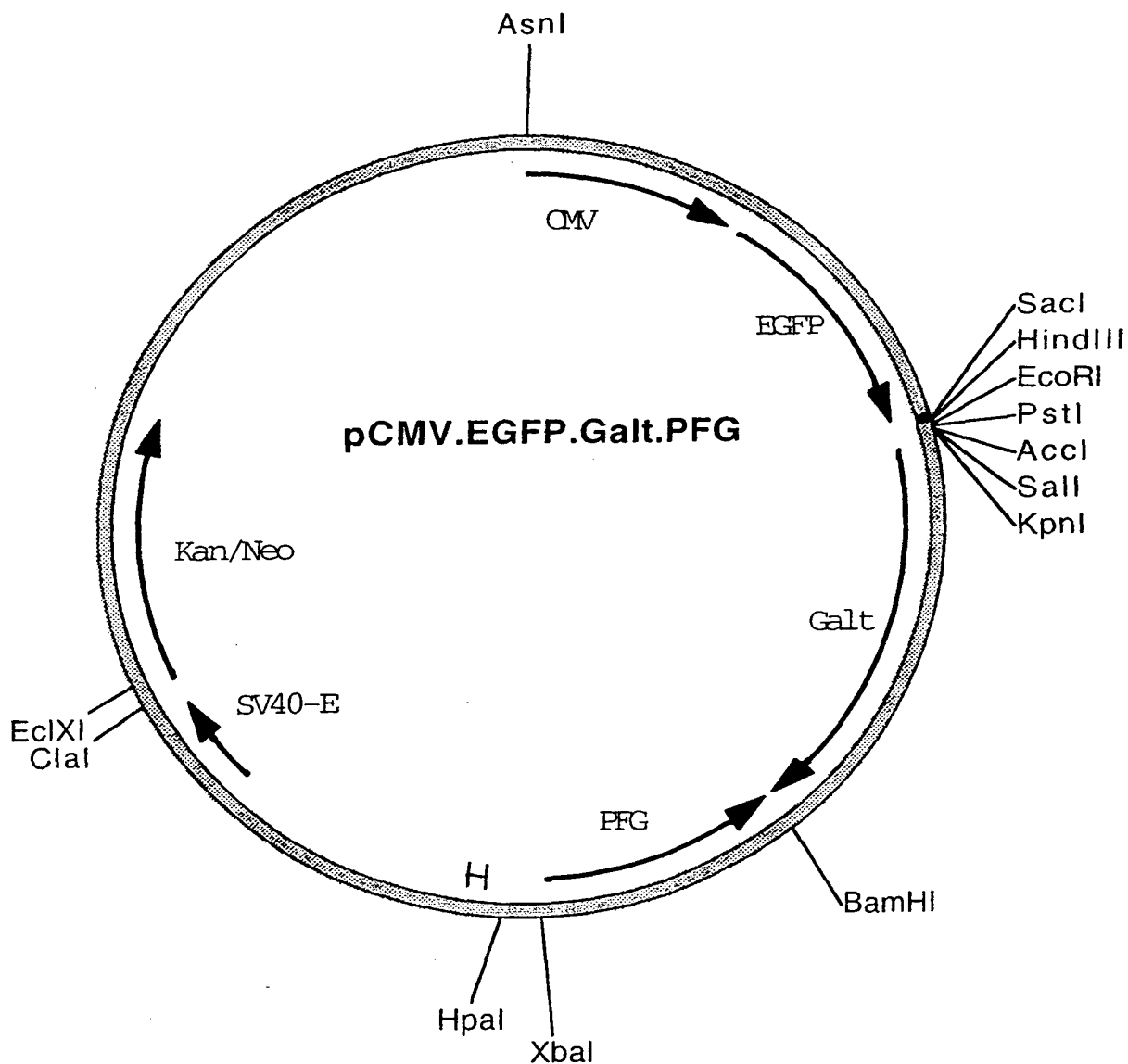


FIGURE 39

40/68

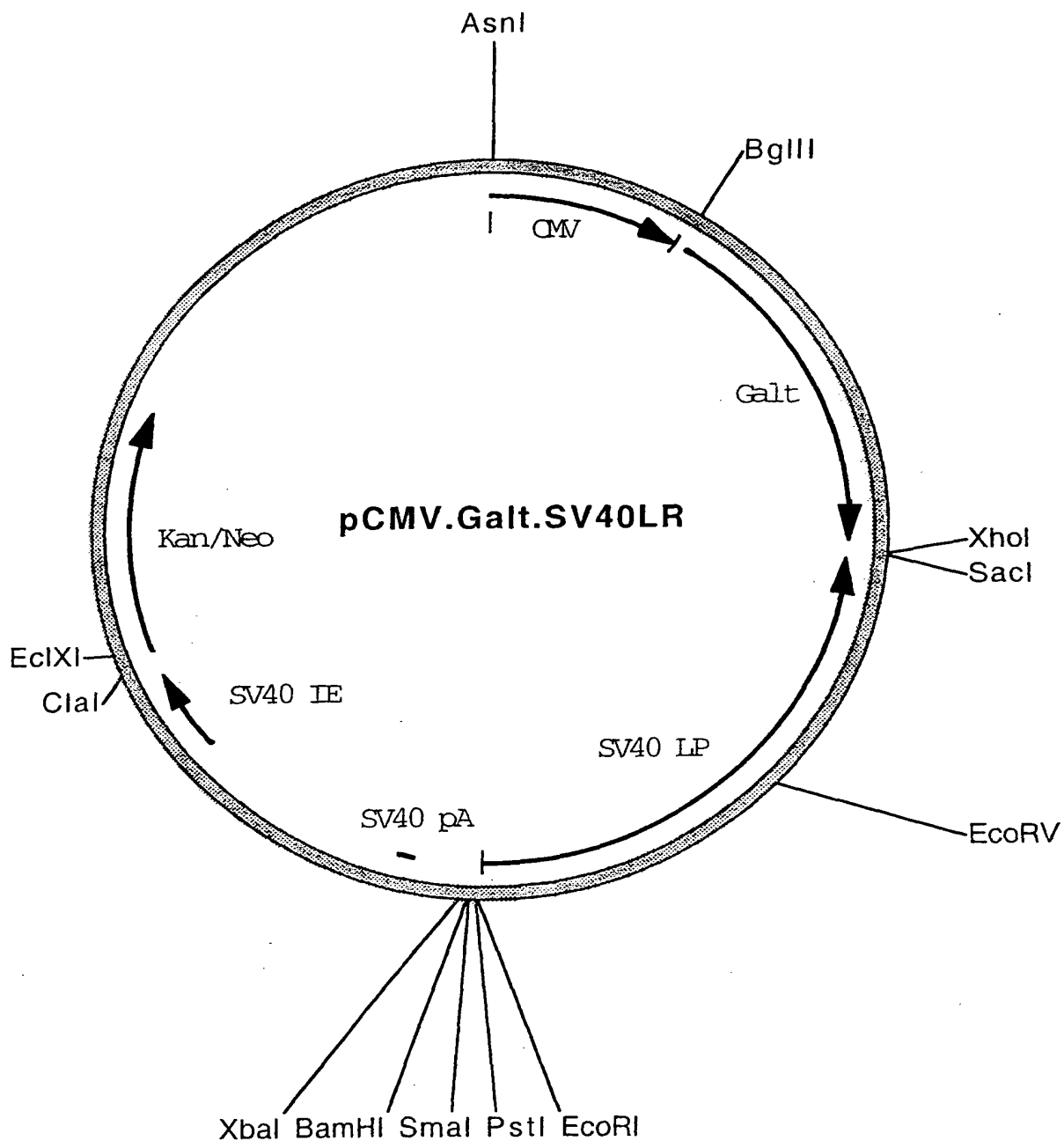
APPROVED	CLASS	SUBCLASS
BY		
DRAFTS		



**FIGURE 40**

41/68

APPROVED	FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS



**FIGURE 41**

42/68

APPROVED	FIG.
BY	CLASS

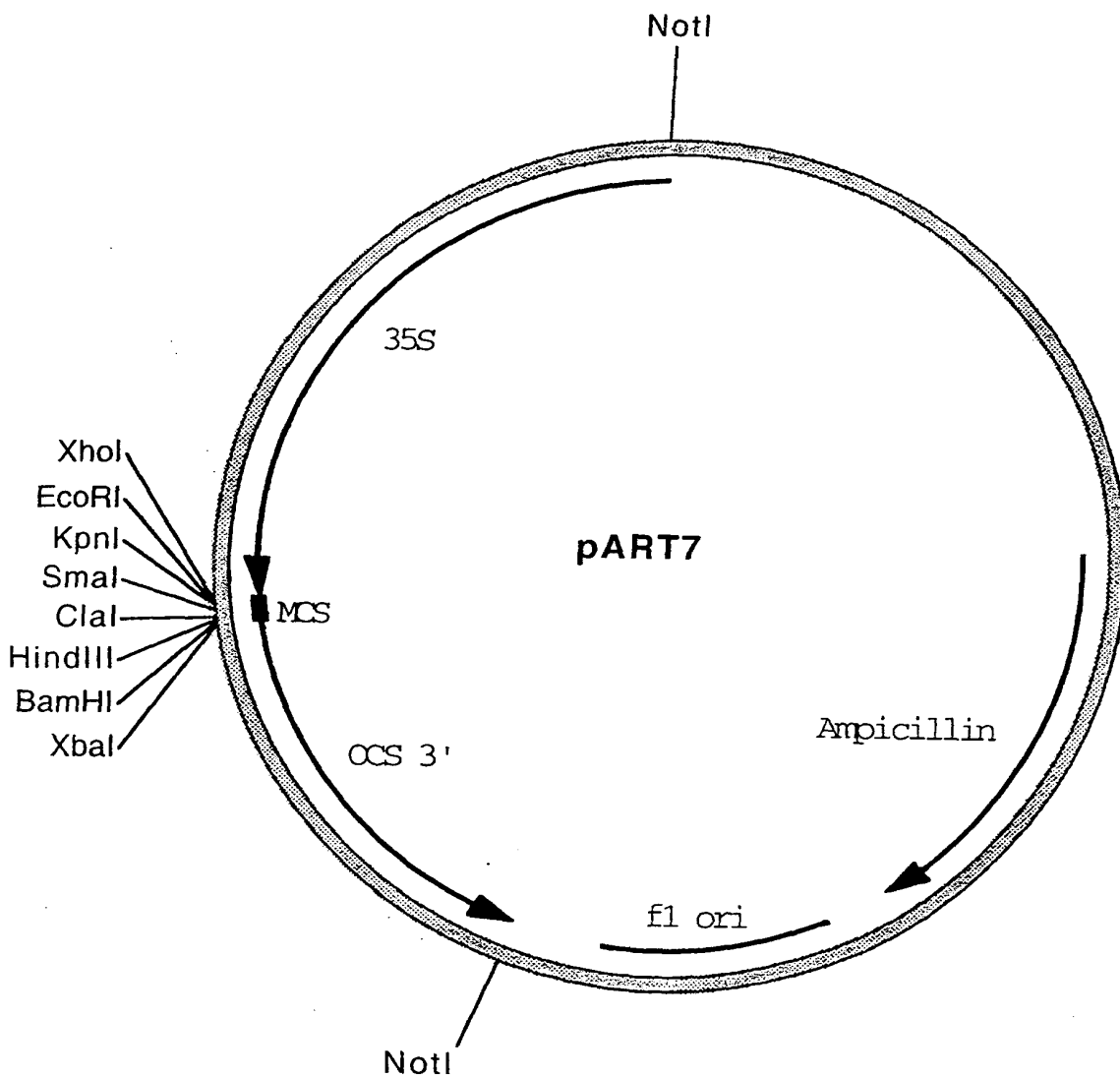
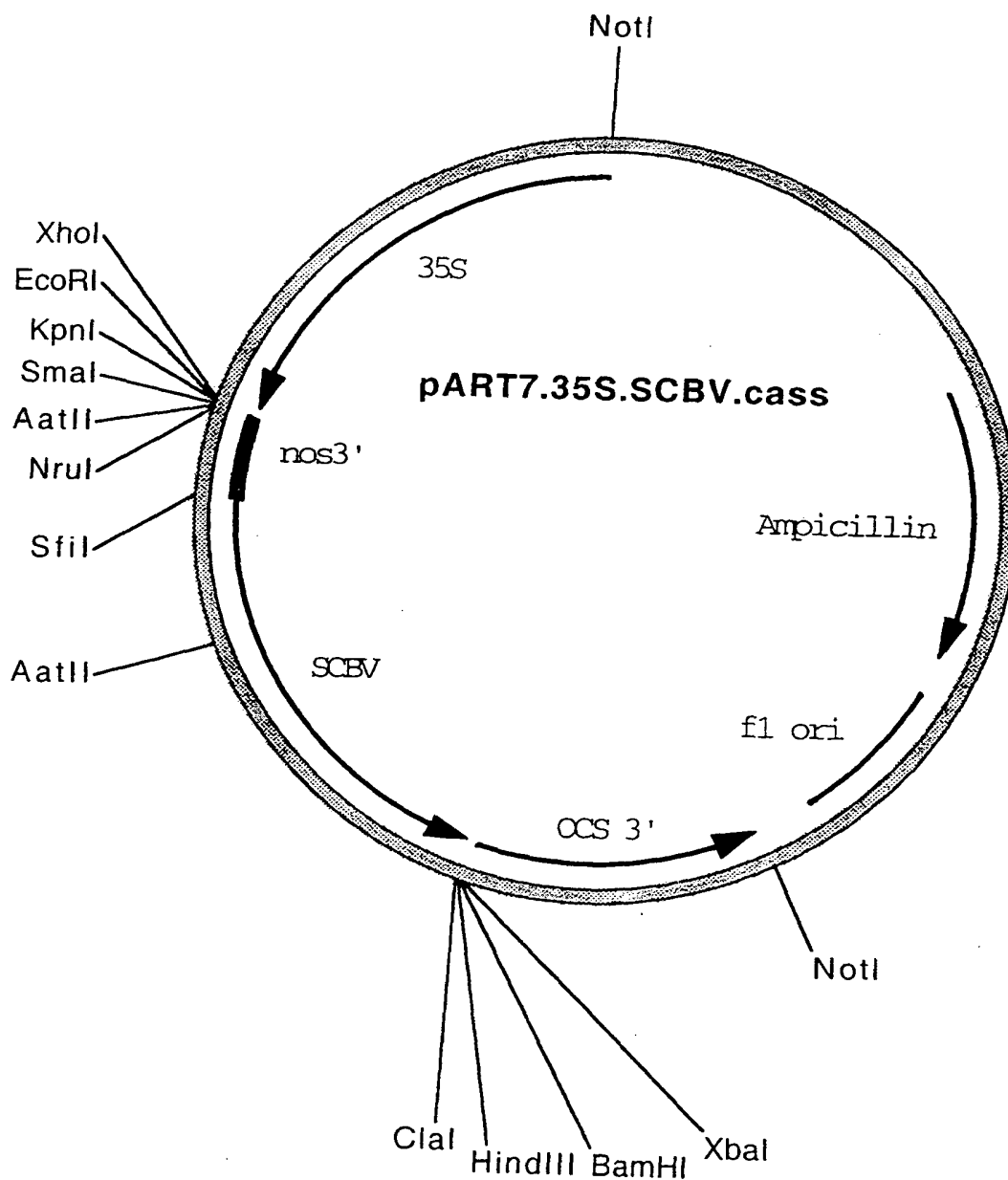
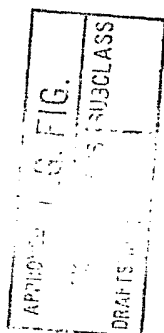


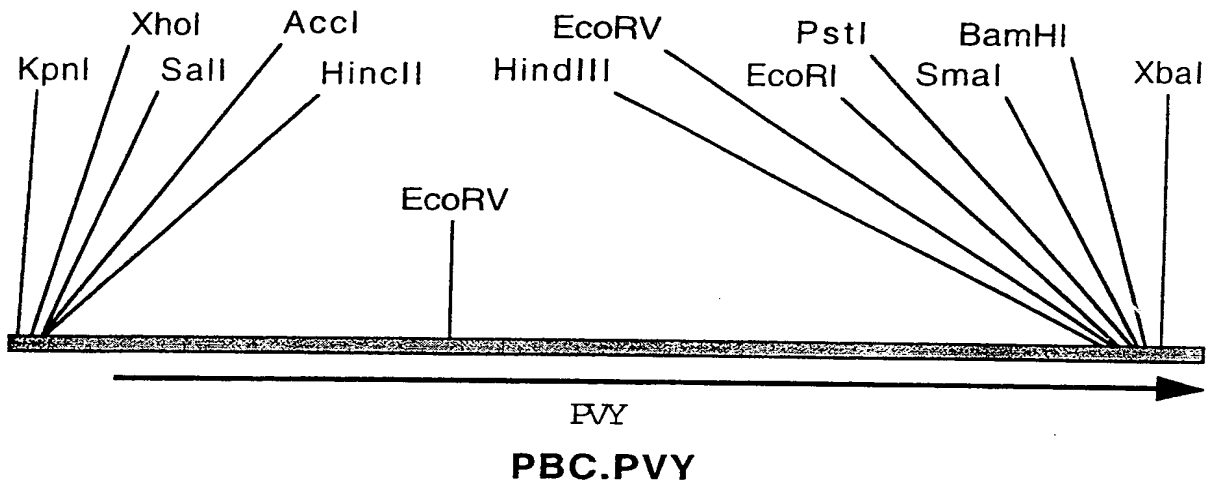
FIGURE 42

43/68

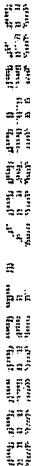


**FIGURE 43**

44/68

**FIGURE 44**

ART. 3000	19.	SUECLASS	
DATE			CRAFTS

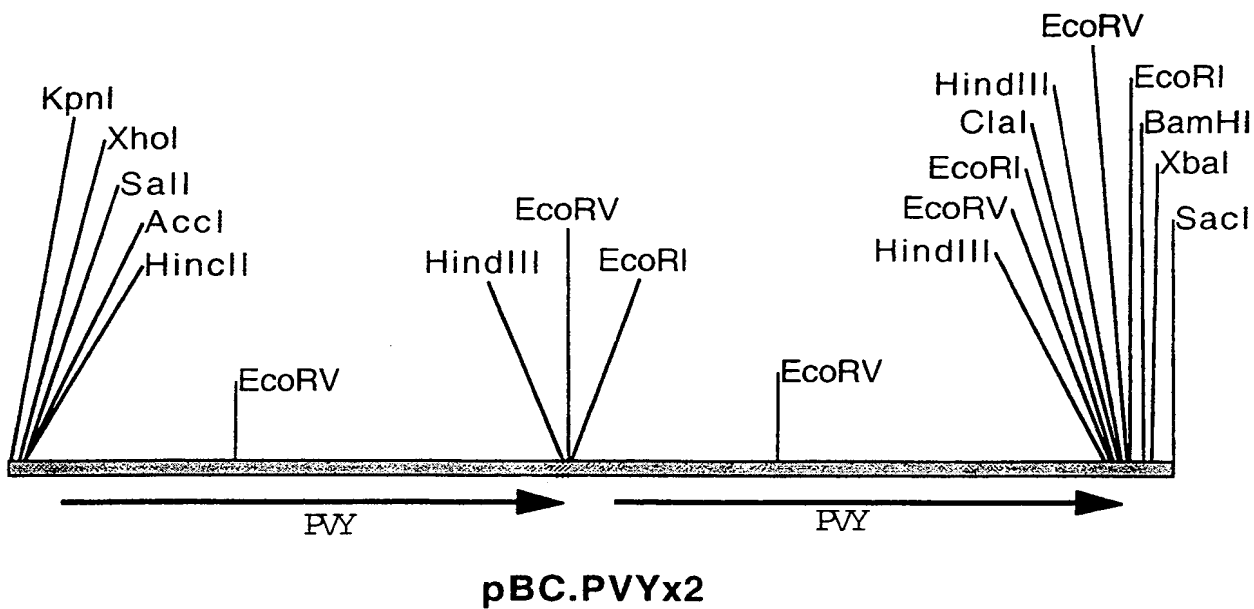


**FIGURE 45**

13.	SUBCLASS
BY	DRAFTSMAN

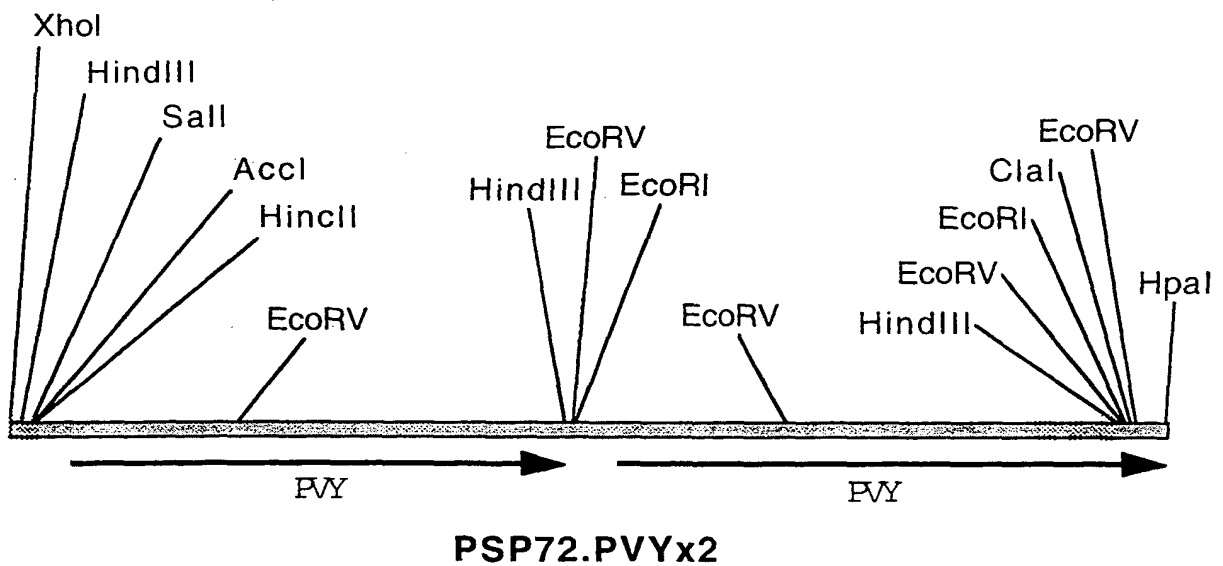
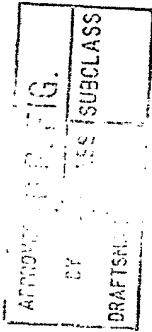
[illegible]

47/68



**FIGURE 47**

48/68

**FIGURE 48**

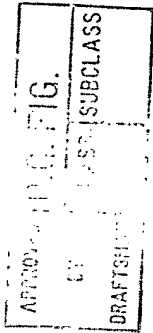


FIG. 49 is a schematic diagram of the pBC.PVYx3 plasmid. The plasmid is a circular DNA molecule containing three PVY genes. The diagram shows the locations of various restriction enzyme sites: KpnI, XhoI, SalI, AccI, HincII, EcoRV, HindIII, EcoRI, and BamHI. The plasmid is labeled pBC.PVYx3.

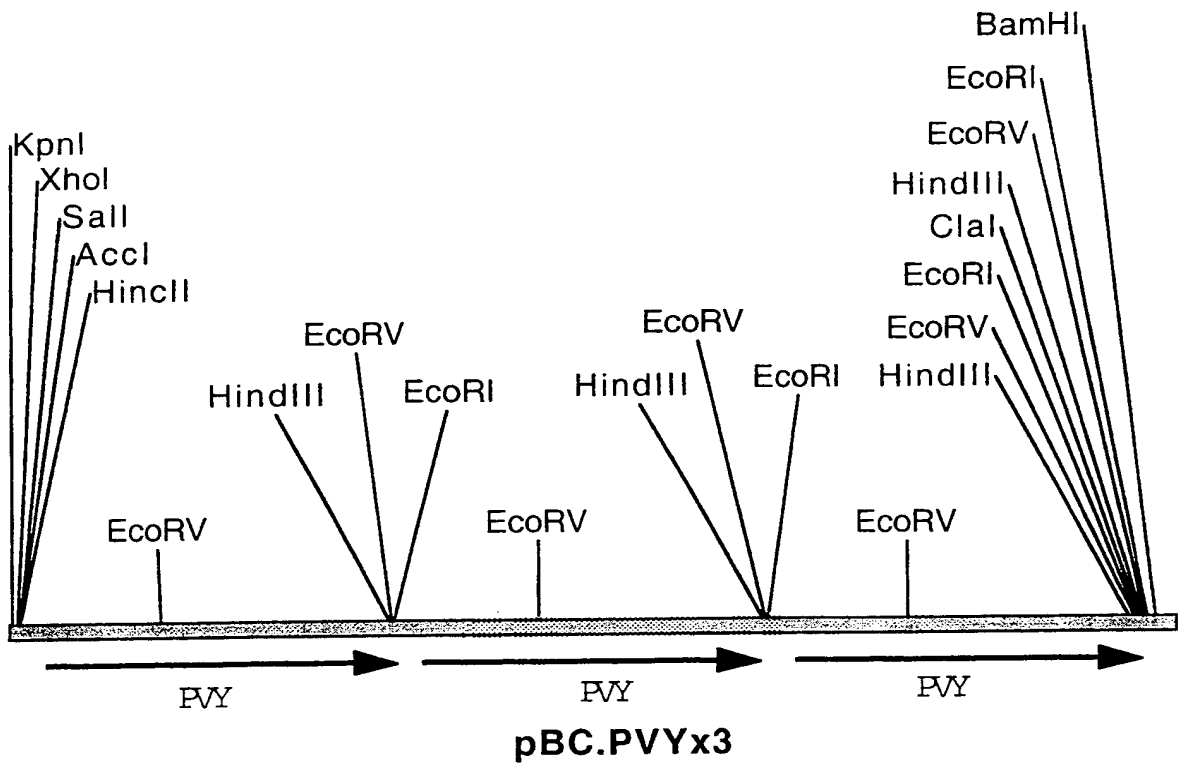


FIGURE 49

50/68

APPROVED	FIG.
BY	CLASS
DRAFTS	SUBCLASS

FIG. 50

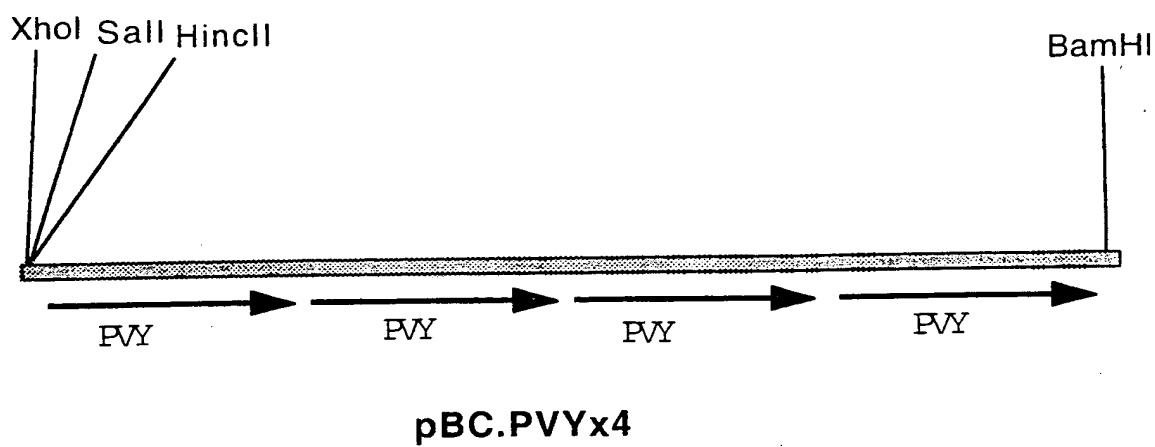


FIGURE 50

51/68

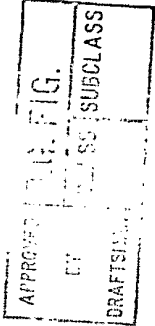
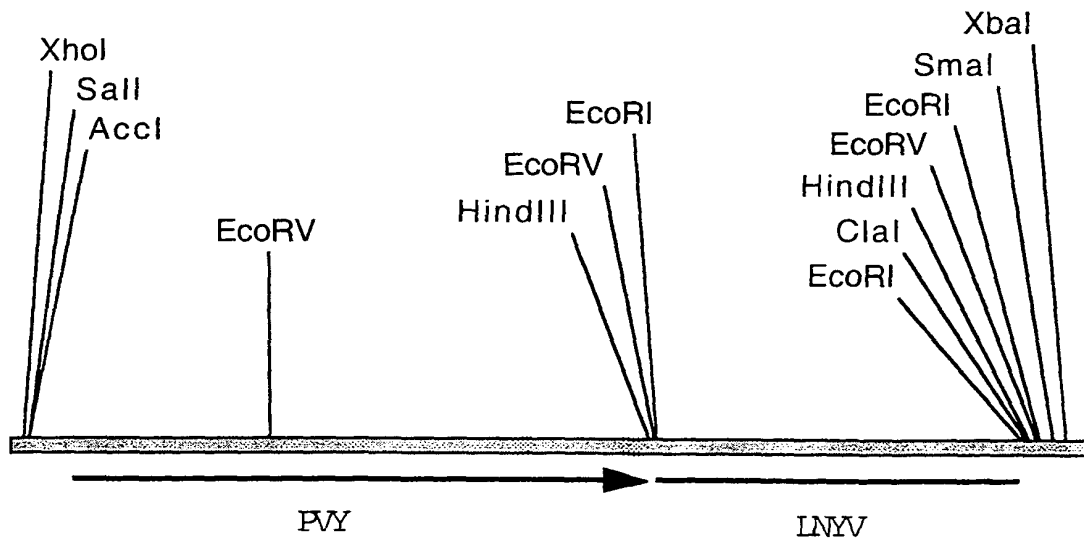


FIG. 51  
pBC.PVY.LNYV  
restriction sites  
XhoI, SalI, AccI, EcoRV, HindIII, EcoRI, EcoRV, HindIII, ClaI, EcoRI, SmaI, XbaI



pBC.PVY.LNYV

FIGURE 51

52/68

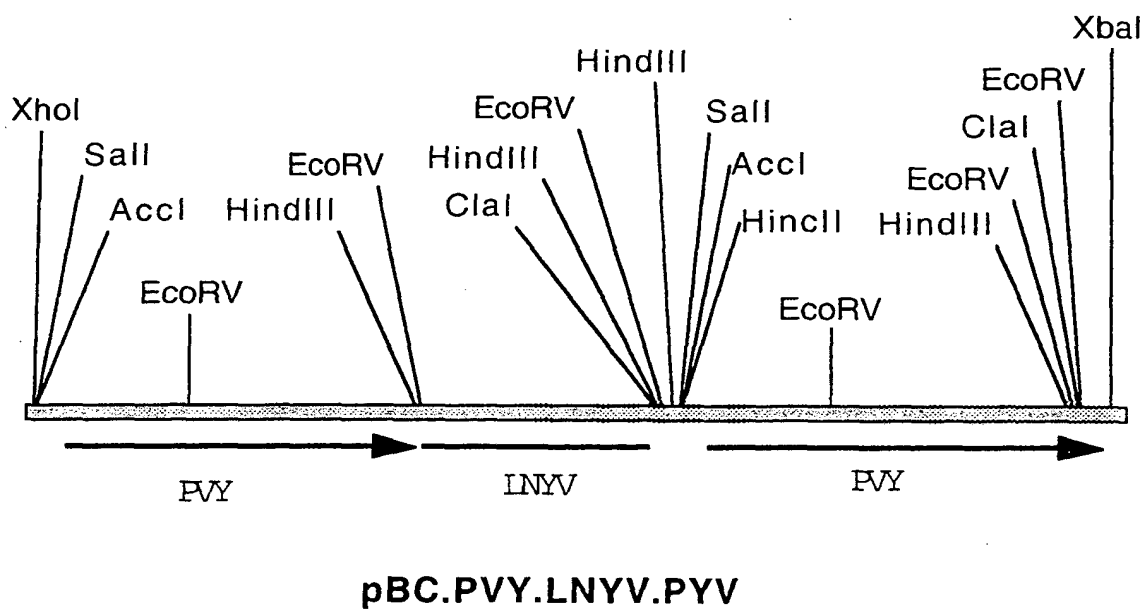
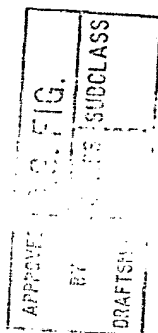
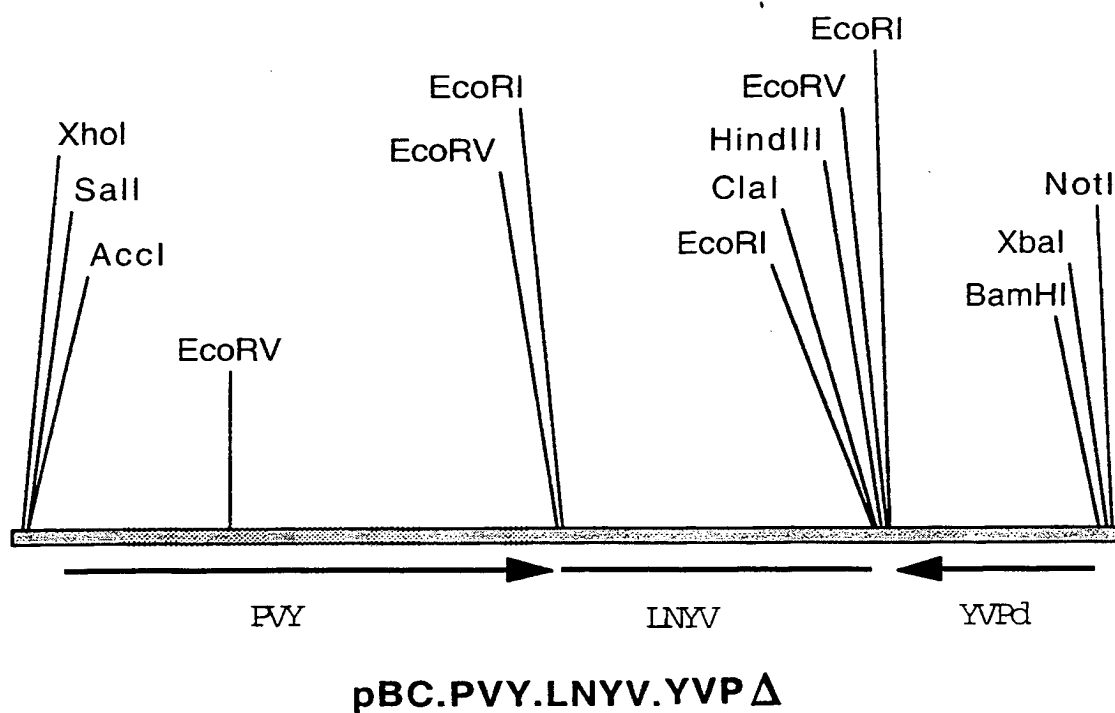
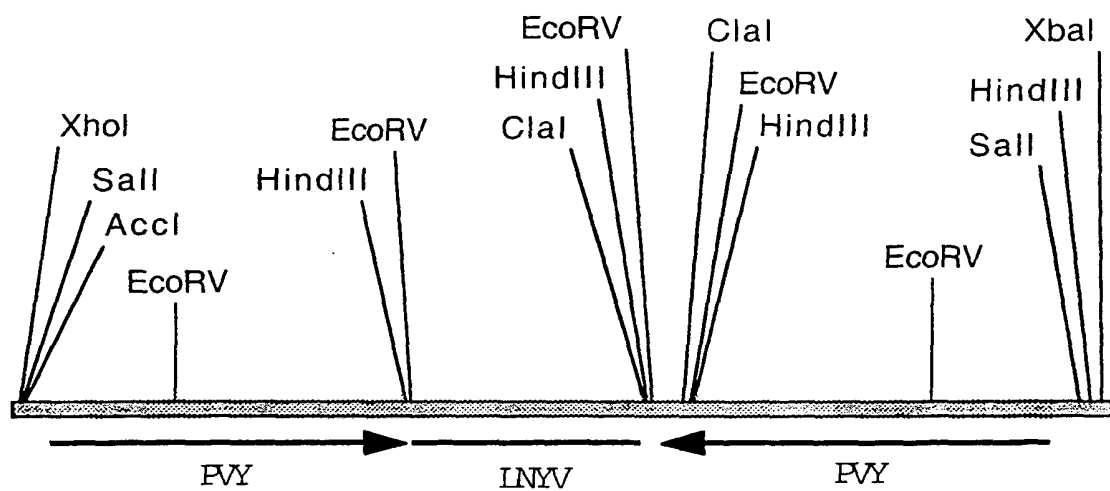


FIGURE 52

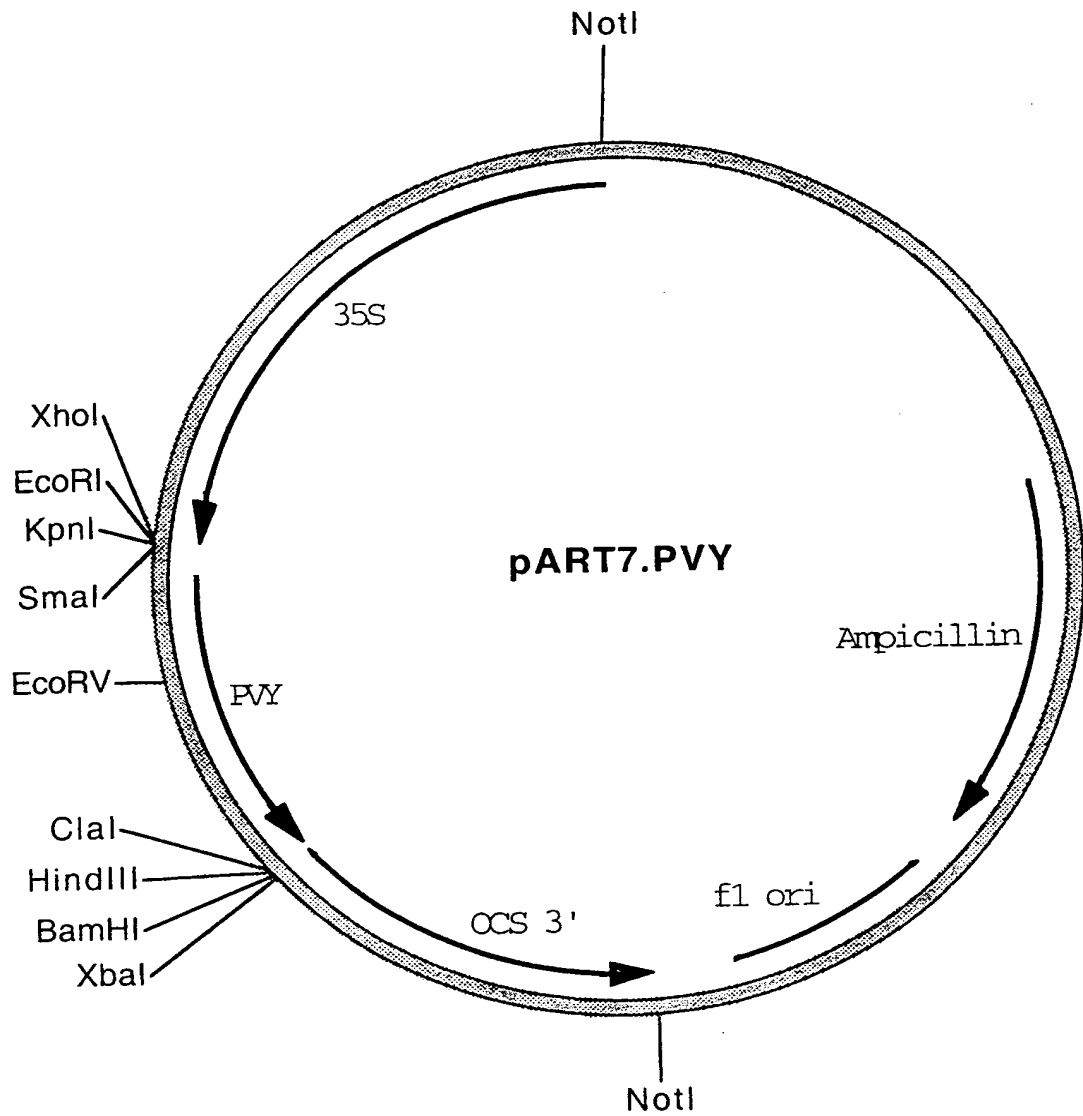
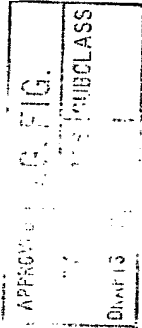
APPROVED FOR PUBLICATION	CLASS	SUBCLASS
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**FIGURE 53**

54/68

**pBC.PVY.LNYV.YVP****FIGURE 54**

55/68

**FIGURE 55**

56/68

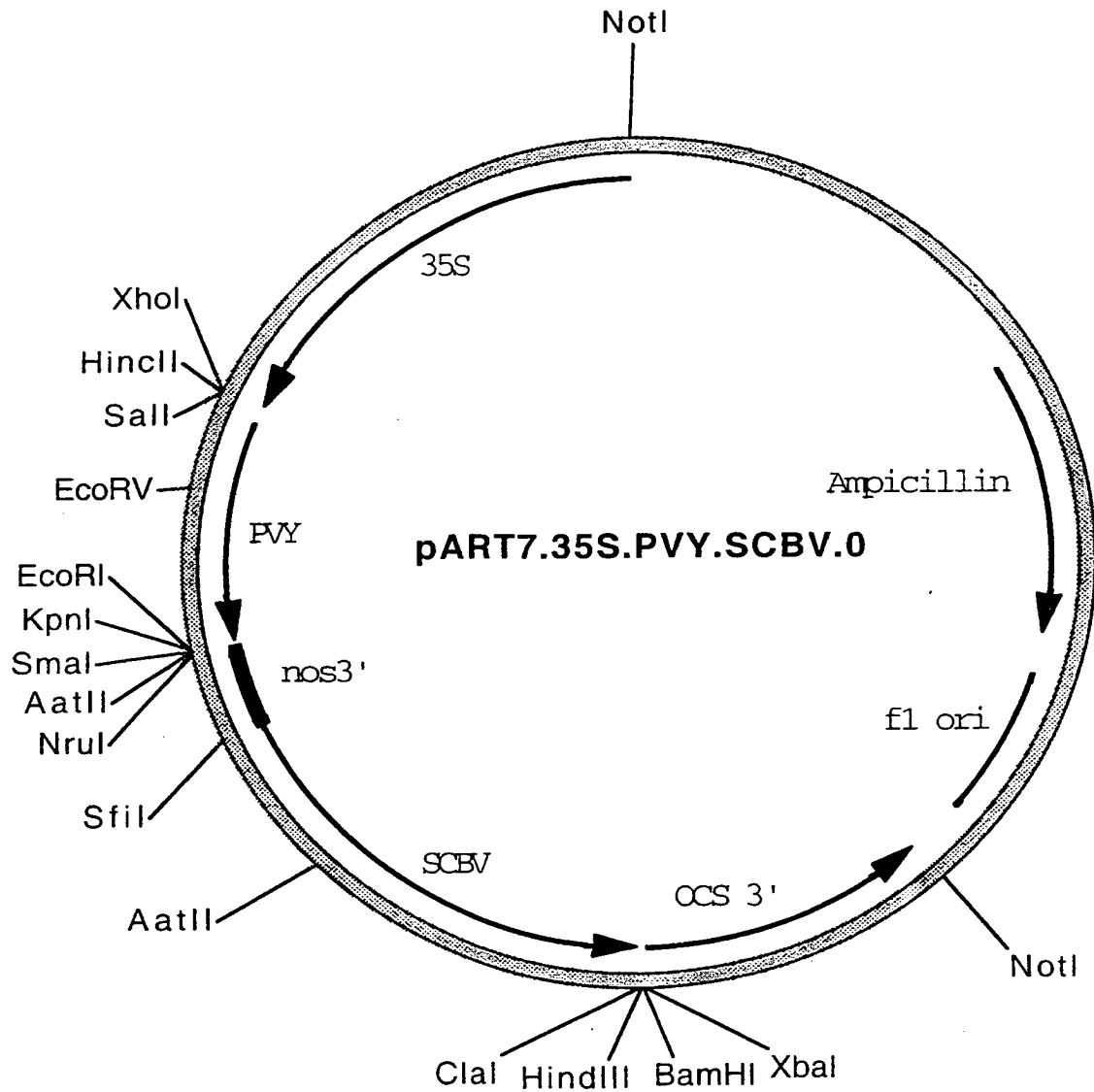


FIGURE 56

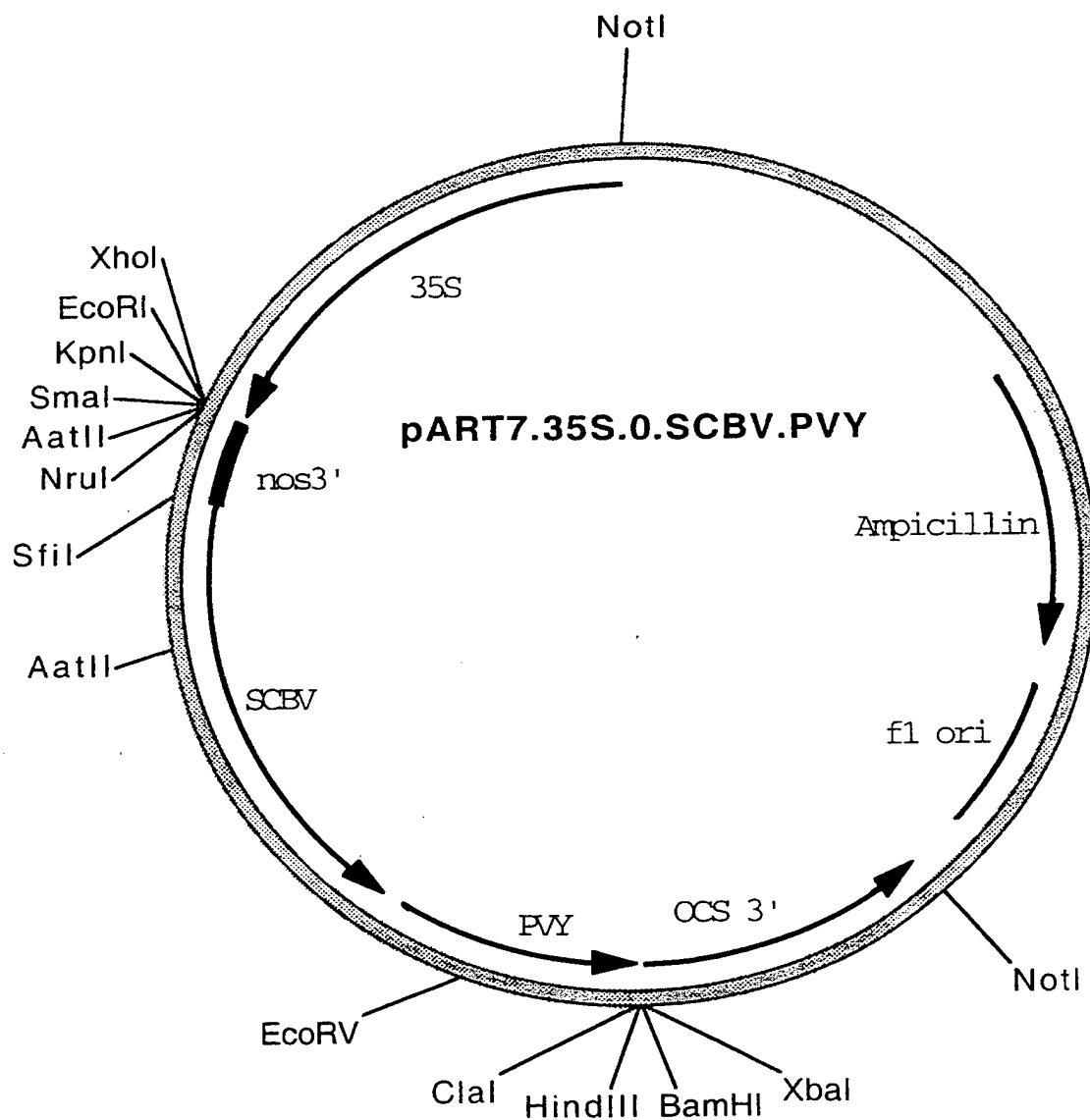
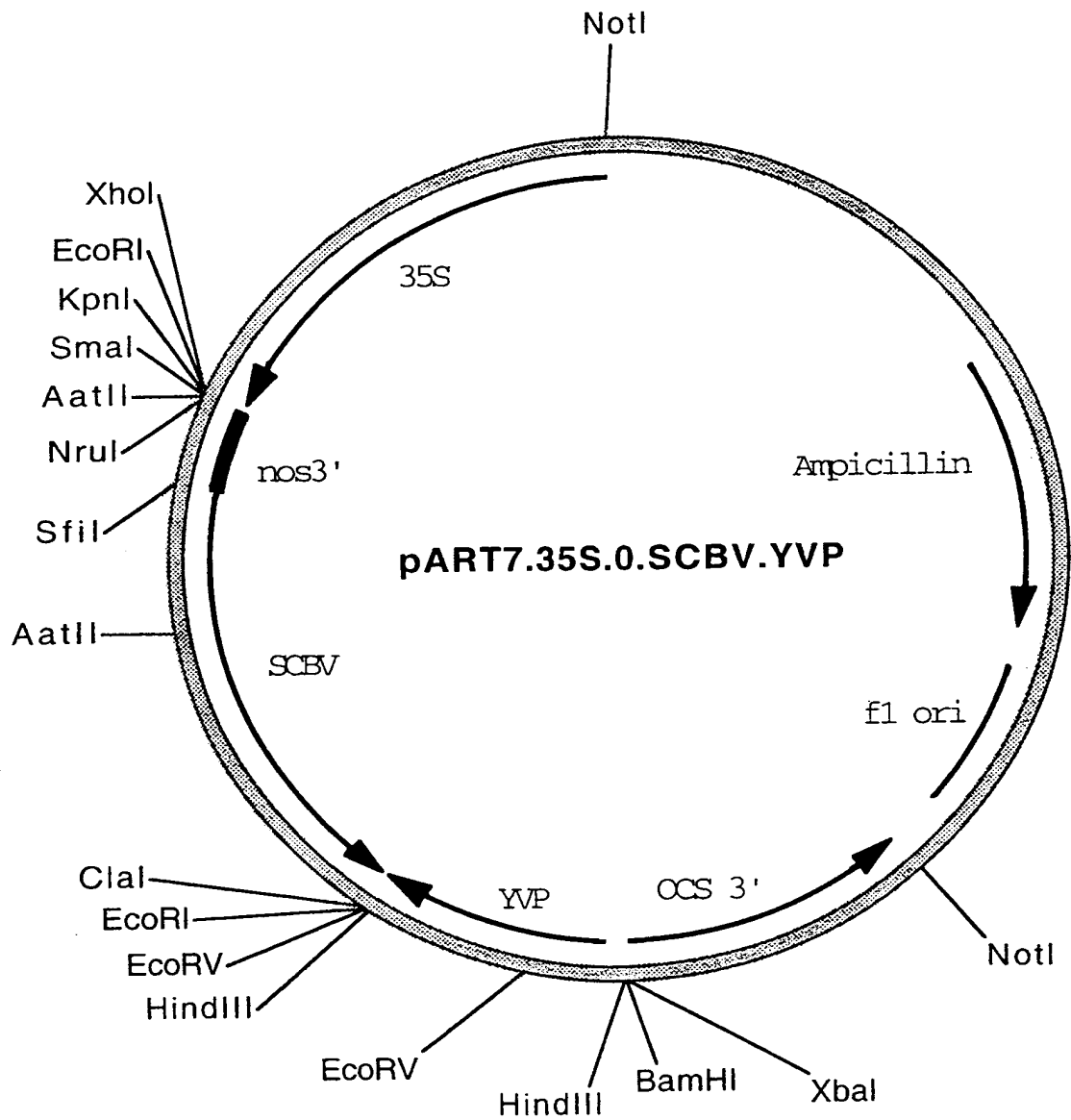


FIGURE 57

58/68

**FIGURE 58**

59/68

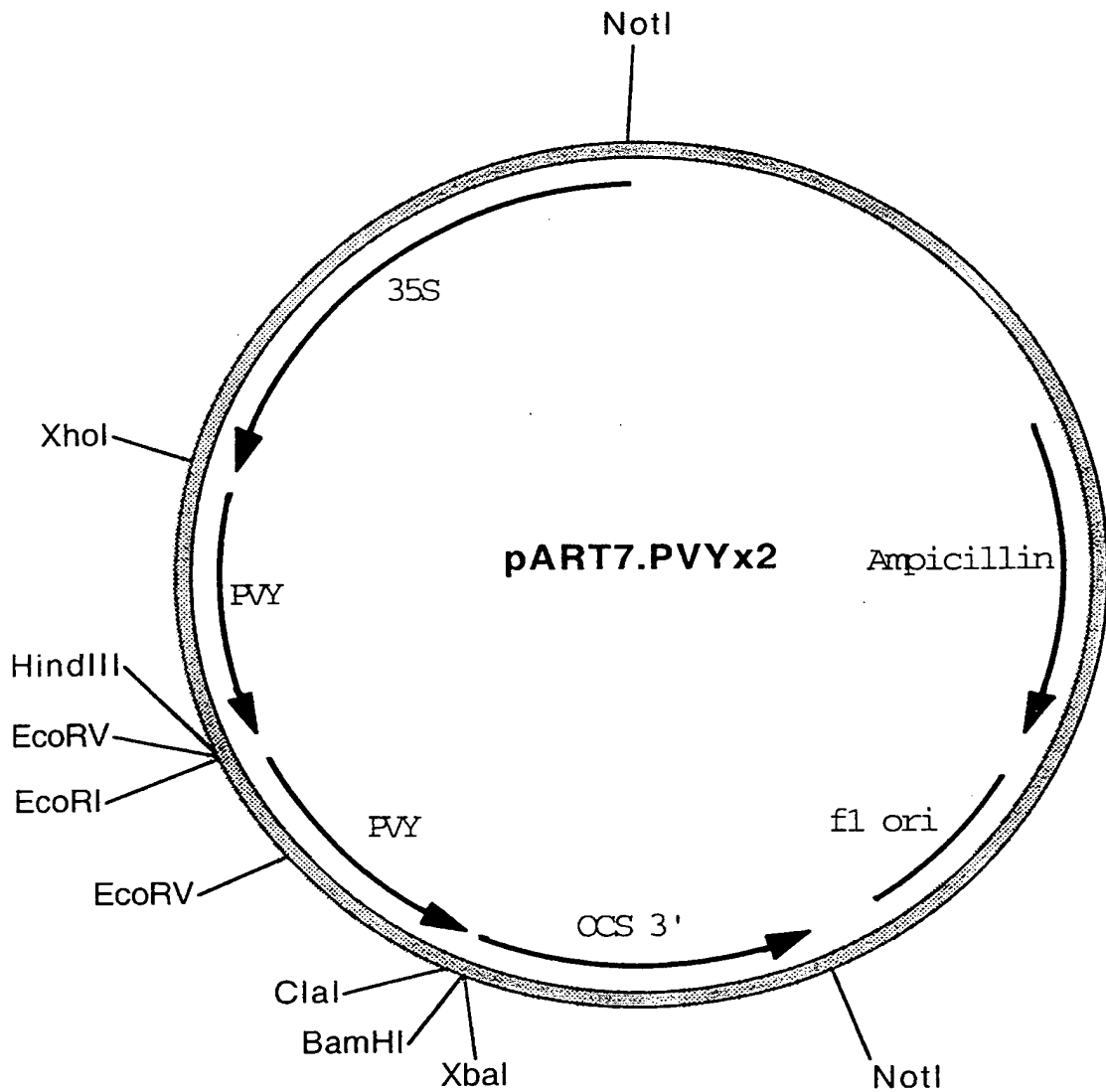
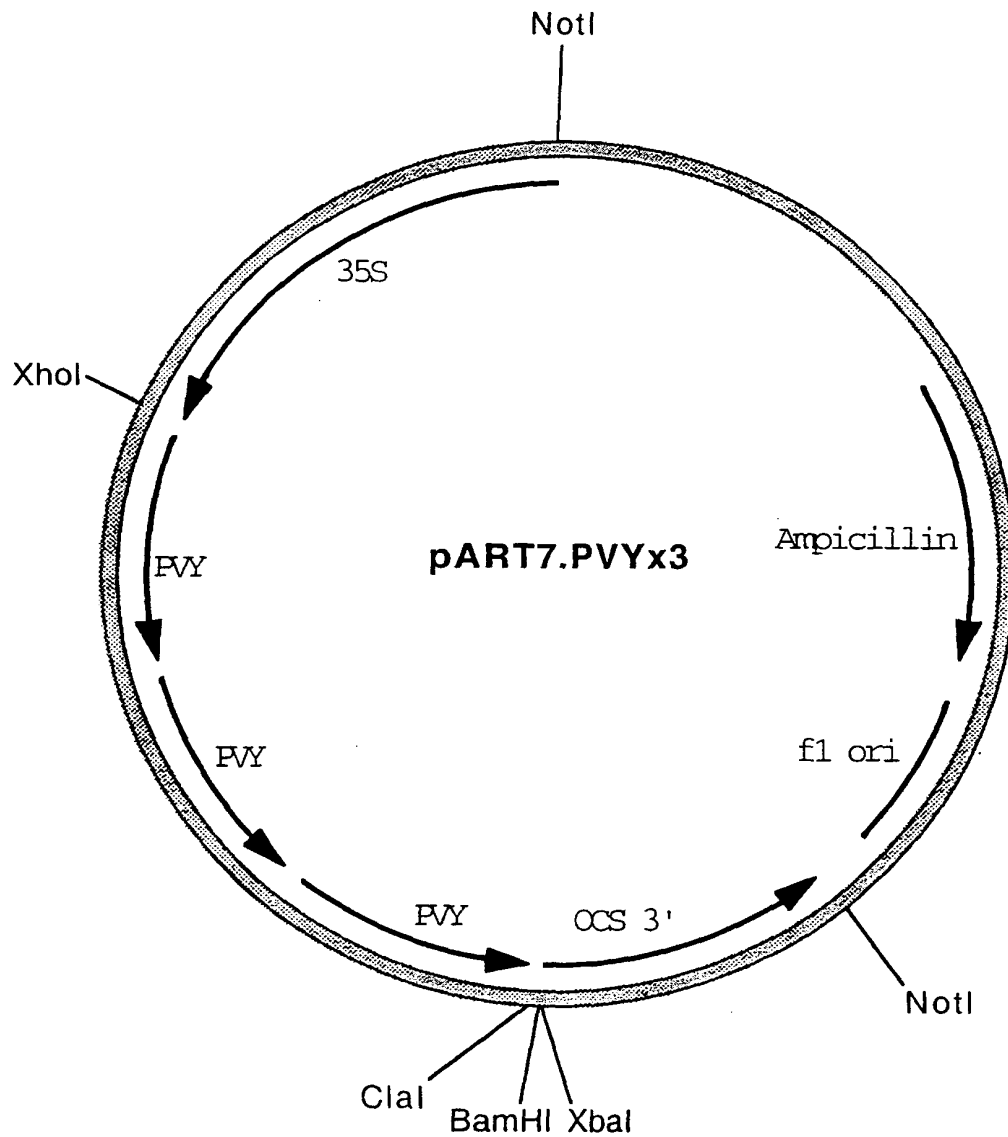


FIGURE 59

60/68

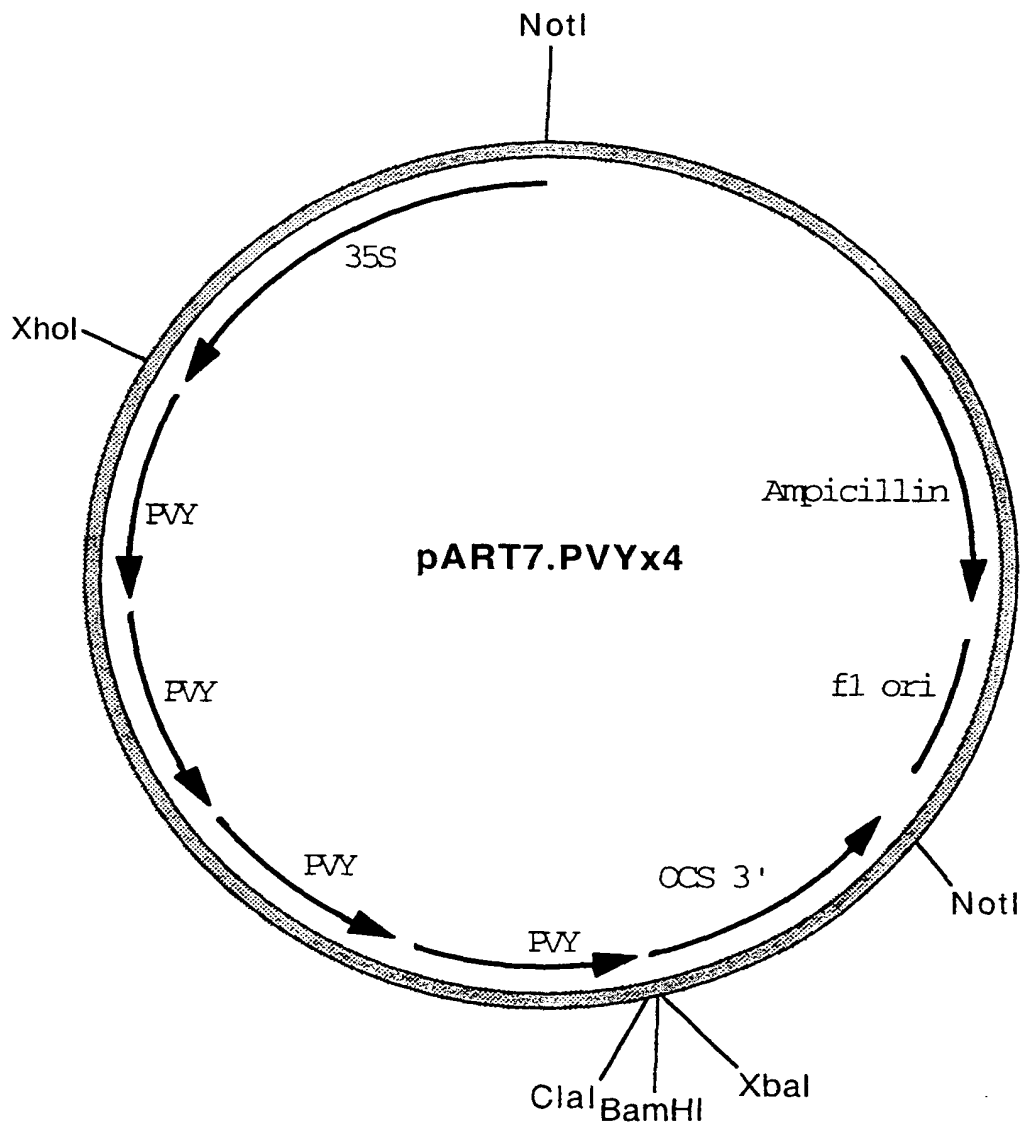
APPROVED	FIG.
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**FIGURE 60**

61/68

APPROVED FOR FIG.	BY	DATE

FIG. 61

**FIGURE 61**

62/68

APPROVED	FIG.
BY	SUBCLASS
DRAFTSMAN	

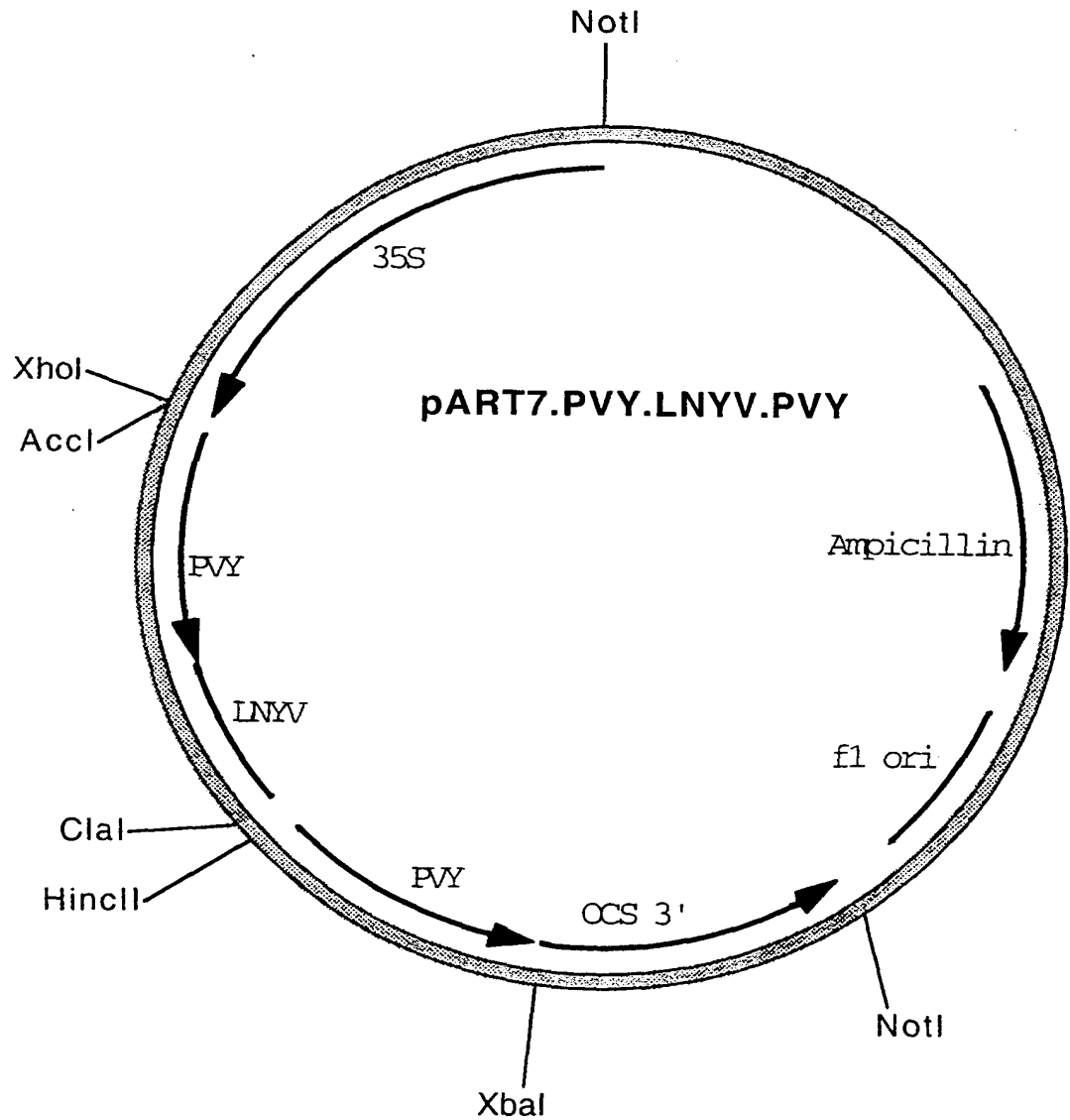
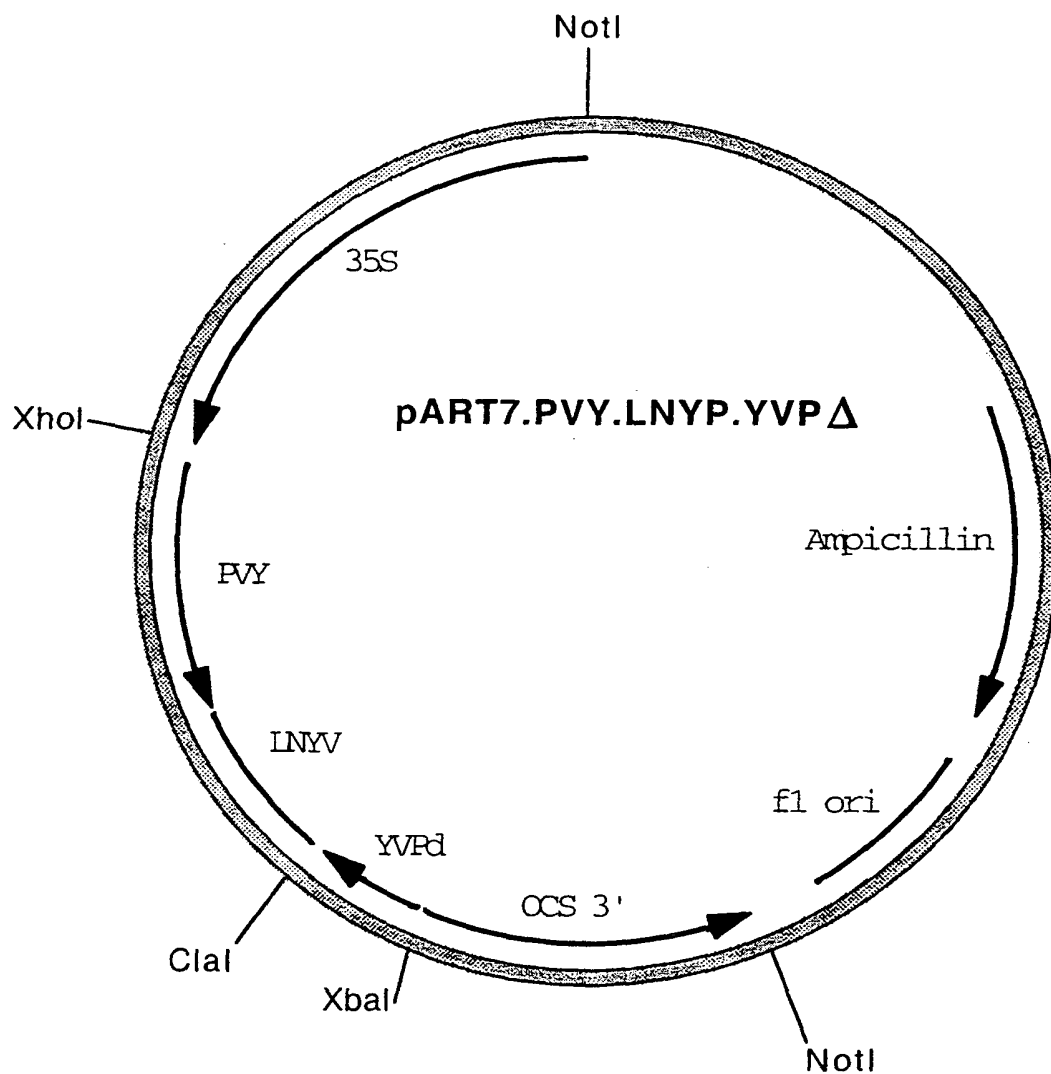
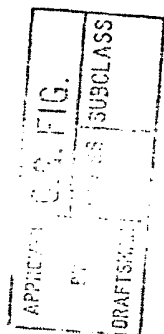


FIGURE 62

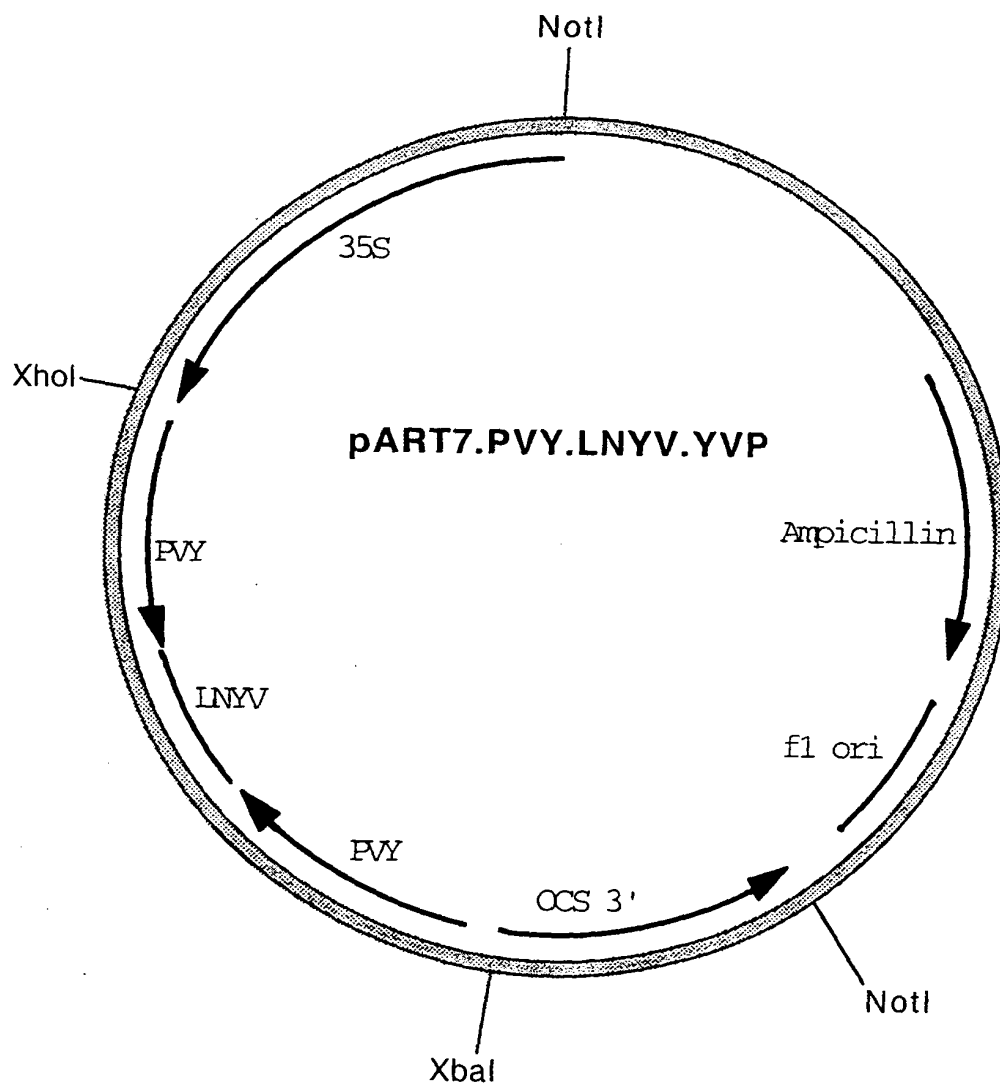
63/68

**FIGURE 63**

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64/68

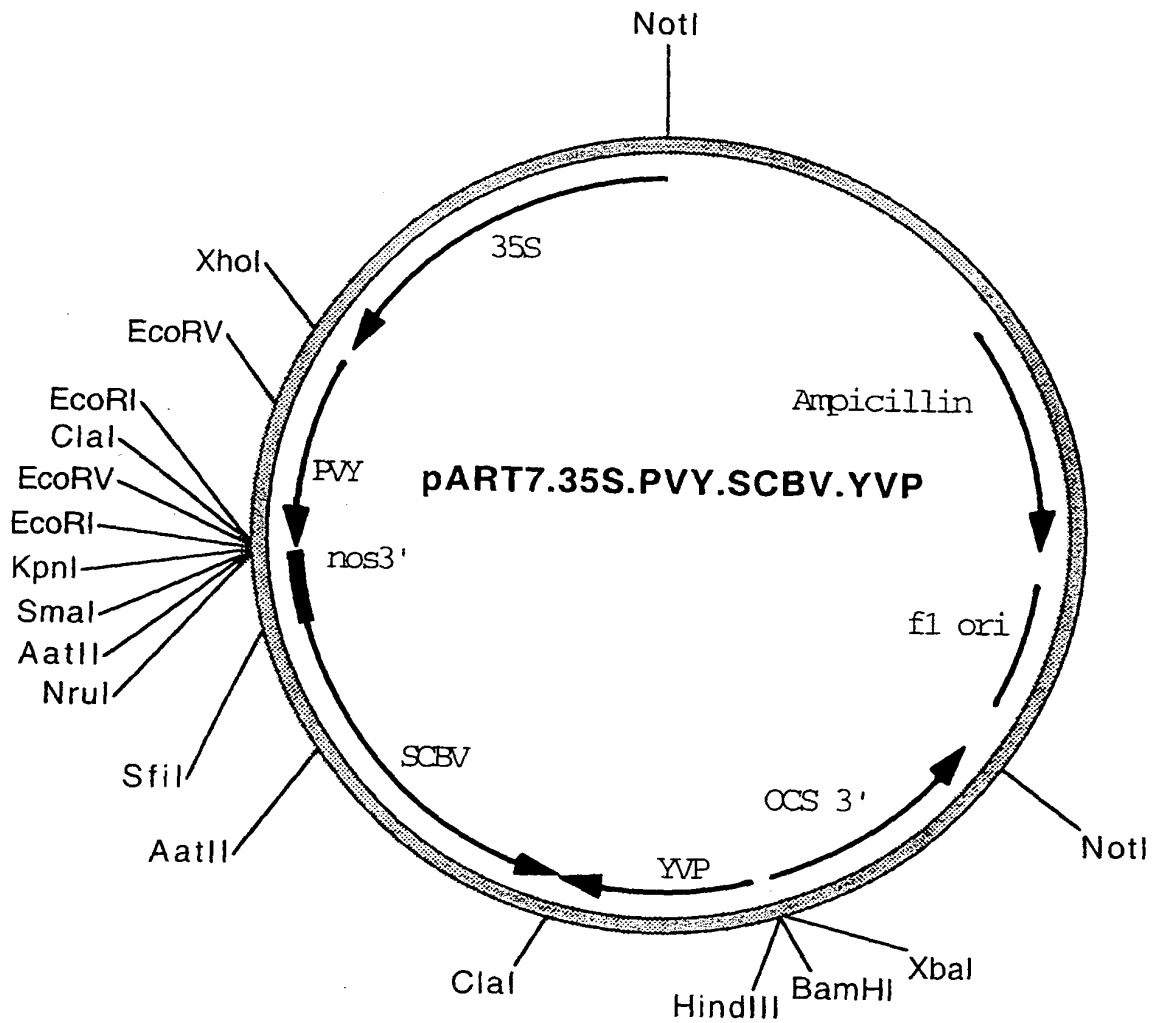
APPENDIX 10.2, FIG.	
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**FIGURE 64**

65/68

FIG.	SUBCLASS
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100	100



**FIGURE 65**

66/68

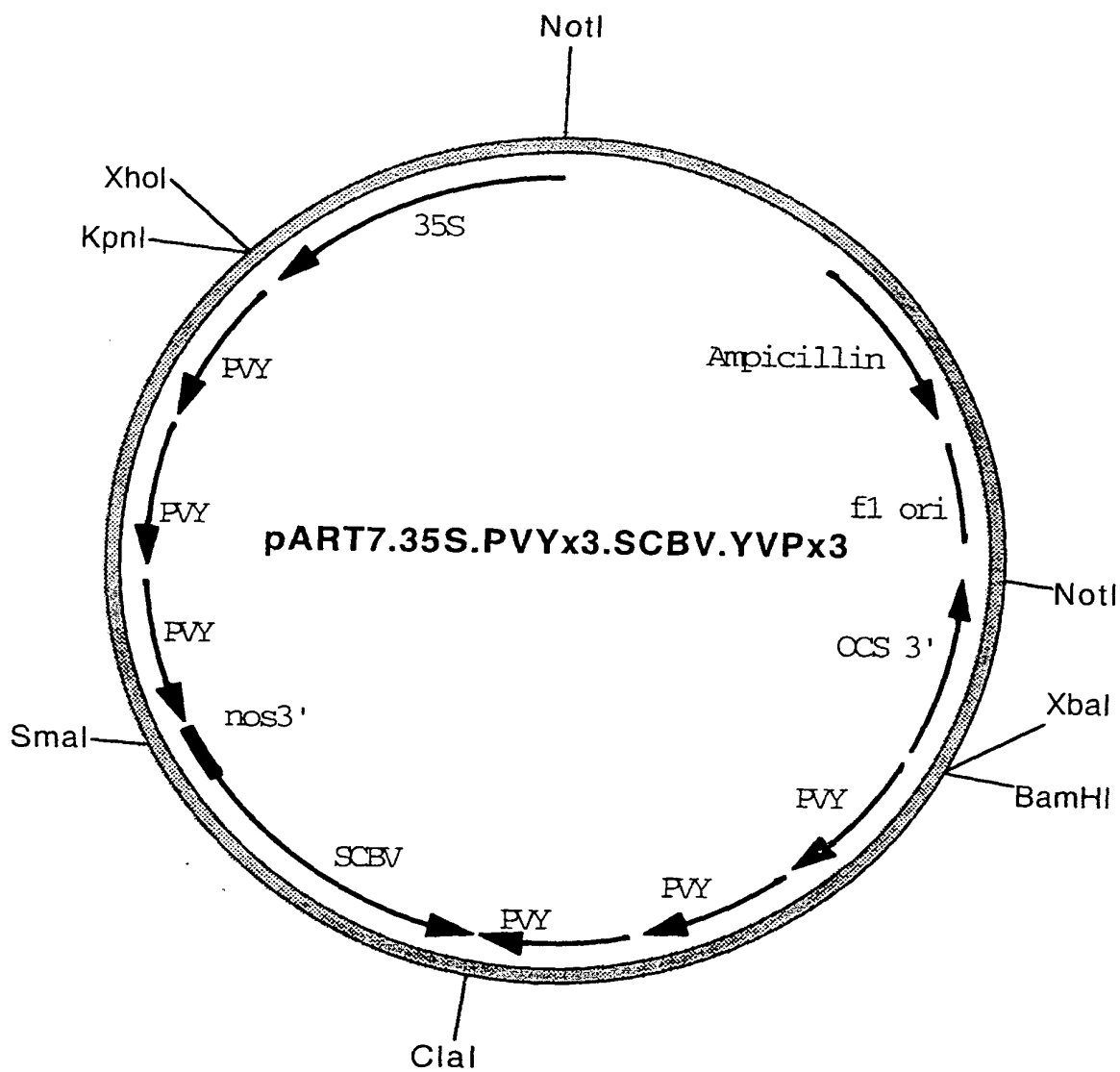
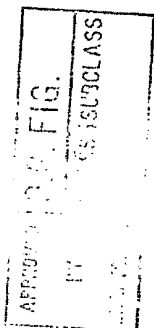
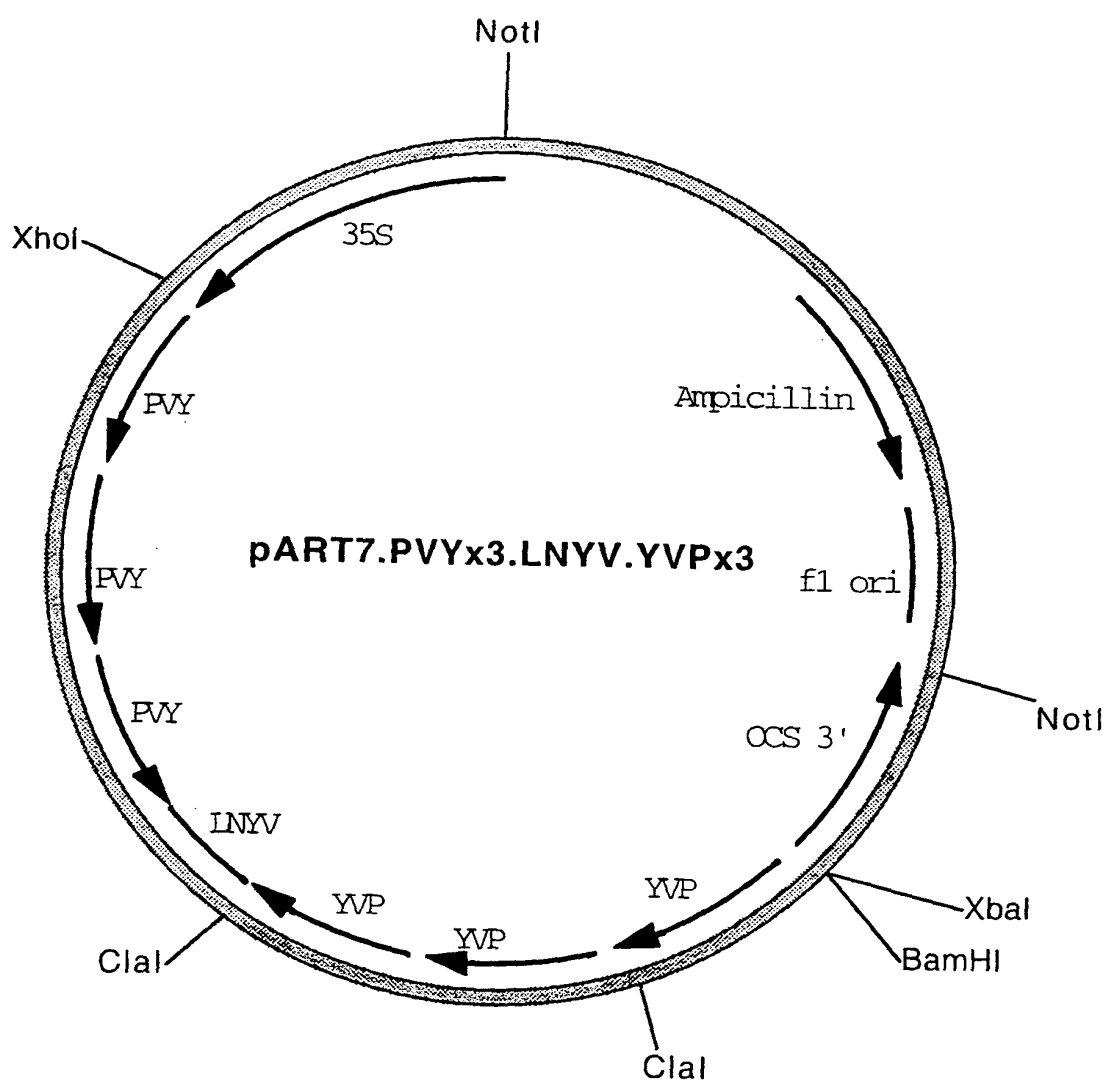


FIGURE 66

67/68

**FIGURE 67**

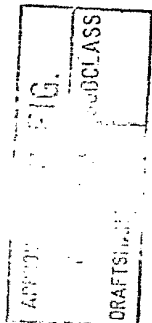


FIG. 68 is a schematic diagram of a circular plasmid vector, pART7.PVYmulti. The plasmid contains a 35S promoter, a PVYmulti gene, an Ampicillin resistance gene, an origin of replication (ori), and a multiple cloning site (MCS) with various restriction enzyme sites. The plasmid is shown with a thick outer boundary and a thin inner boundary representing the DNA sequence.

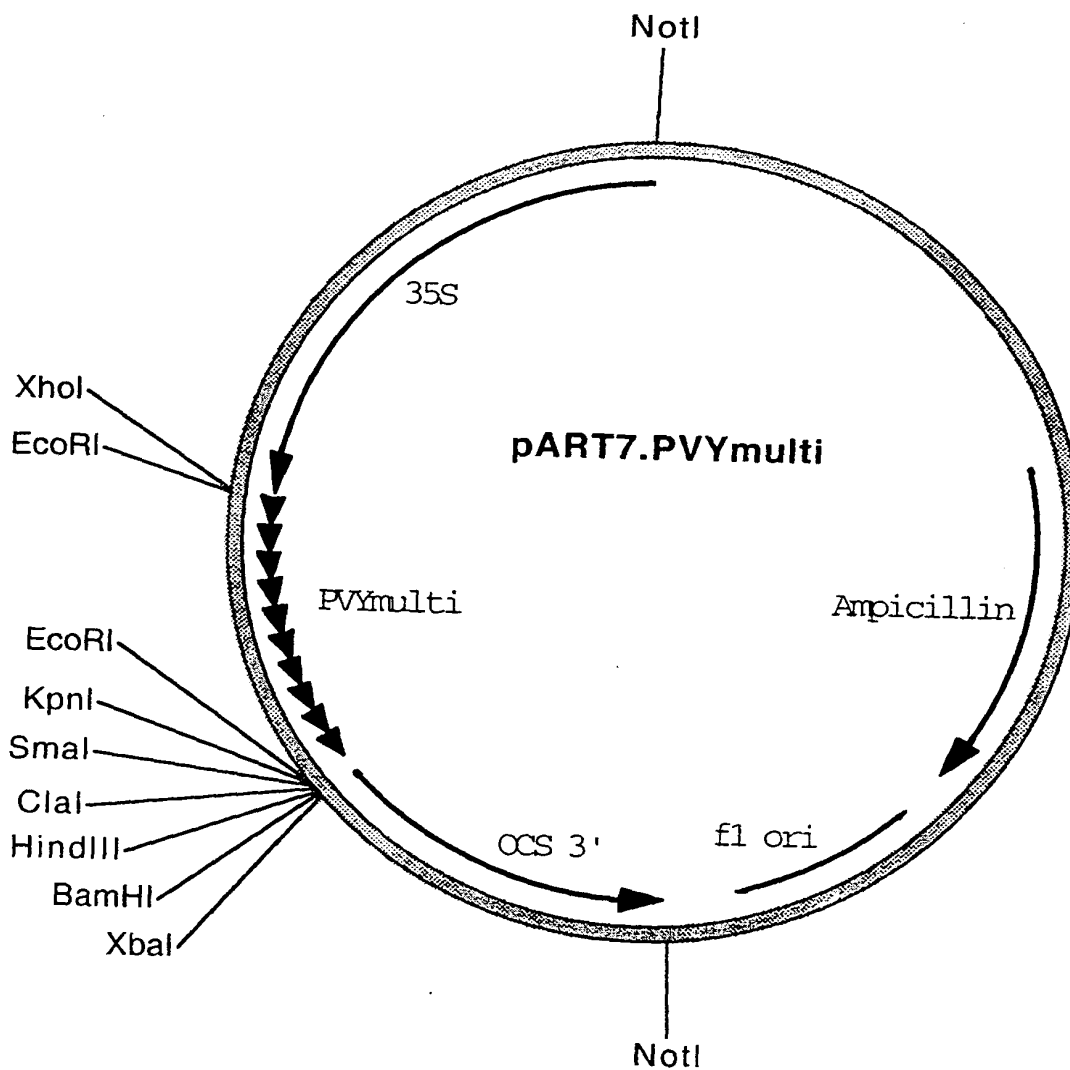


FIGURE 68